

Notes on the *Insecta* in the Collection of the Cesa *Lepidoptera* of Turkey-II

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Abstract: Notes on the *Insecta* in the Collection of the Cesa *Lepidoptera* of Turkey-II. *Cesa News* 67: 1-26.

The present paper deals with some results on the faunistical activities of the Cesa. The authors list some of the lepidopteran specimens from 26 provinces of Turkey of the Cesa Collection, comprising various insect groups from Turkey, as well as from abroad. The present list contains the selected specimens of the following 12 families of the butterflies and moths, collected or observed between 1998 and 2009 from various provinces of Turkey: *Papilionidae*, *Pieridae*, *Satyridae*, *Notodontidae*, *Noctuidae*, *Saturniidae*, *Sesiidae*, *Sphingidae*, *Thyatiridae*, *Tineidae*, *Tortricidae*, and *Yponomeutidae*. The collecting information is composed of the number of the collected specimens, code of Turkish provinces, name of districts, localities with altitudes, date of collecting, names of the collectors or observers, and short notes of the collecting, the habitat or feeding biology of the specimens.

Key words: *Lepidoptera*, *Papilionidae*, *Pieridae*, *Satyridae*, *Notodontidae*, *Noctuidae*, *Saturniidae*, *Sesiidae*, *Sphingidae*, *Thyatiridae*, *Tineidae*, *Tortricidae*, *Yponomeutidae*, fauna, Turkey.

In this part of the faunistical papers, the authors list some of the lepidopteran specimens from totally 26 provinces of Turkey of the Cesa Collection (see also Appendix, page 26). As faunistical activities of the Cesa, the present list comprises the selected specimens of the following 12 families of the butterflies and moths, collected or observed between 1998 and 2009 from various provinces of Turkey (in alphabetical order): *Papilionidae*, *Pieridae*, *Satyridae*, *Notodontidae*, *Noctuidae*, *Saturniidae*, *Sesiidae*, *Sphingidae*, *Thyatiridae*, *Tineidae*, *Tortricidae*, *Yponomeutidae*.

The collecting information is composed of the number of the collected specimens, code of Turkish provinces, name of districts, localities with altitudes, date of collecting, names of the collectors or observers, and short notes of the collecting, the habitat or feeding biology of the specimens. All the specimens identified by the authors. The list of the species given below is an original extract of the database files of the collection prepared and maintained by the authors.

Butterflies

Papilionidae

Allancastris cerisyi 1♂ 2♀ 11: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills.* - 4♂ 1♀ 31: 0440m, 21 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation.* - 8♂ 31: Antakya: Şenköy, 0850-1000m, 09 04 2005, M.Kemal leg. - 4♂ 31: Antakya: Harbiye 10km S, 0500m, 09 04 2005, M.Kemal leg. - 1♂ 31: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg. - 3♂ 1♀ 31: Yayladağı: Şenköy, 0870m, 19 04 2007, M.Kemal & A.Koçak leg. - 5♂ 1♀ 31: Şenköy, Yukarı Uçlar, 0470m, 20 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation.* - 31: Şenköy, Şenköy E., 0710m, 20 04 2007, M.Kemal obs. *margin of degraded macchie vegetation.* - 80: Osmaniye: Amanoslar, Ürün Yaylası, 0950m, 08 04 2005, M.Kemal leg.

Allancastris deyrollei 1♂ 06: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♀ 06: Keçiören: Bağlum, 1300m 02 05 1999, A.Koçak & M.Kemal leg. - 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak obs. - 4♂ 06: Yenimahalle: Karyağı Dağı, Memlik, 1300m 01 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 25♂♀ 06: Yenimahalle: Karyağı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 20♂ 3♀ 06: Yenimahalle: Karyağı Dağı, Lezgi, 1350m. 23 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Karyağı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 2♂ 13: Tatvan: Reşadiye 2km W, 1700m, 26 05 2007, M.Kemal & A.Koçak leg. - 1♂ 13: Bitlis: Bitlis 10km SW, 1400m. 12 06 2002, M.Kemal & A.Koçak leg. - 5♂ 1♀ 13: Tatvan: Reşadiye 5km W, 1750m. 11 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland margins.* - 1♂ 1♀ 21: Silvan: Silvan 10km E, 0830m, 07 04 2005, M.Kemal leg. - 1♀ 27: Suruç: Suruç 10km N, 0700m, 07 04 2005, M.Kemal leg. - 2♂ 30: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 2♂ 1♀ 30: Şemdinli: Şapatan geçidi N, 1560m. 19 05 2003, M.Kemal leg. - 5♂ 30: Şemdinli: Şapatan geçidi S, 1700m. 19 05 2003, M.Kemal leg. - 1♂ 31: Yayladağı: Anten yolu, Laleli, 1050m, 19 04 2007, M.Kemal & A.Koçak leg. - 1♀ 46: Göksun: Keklikoluk, 1700m, 06 06 2006, M.Kemal & A.Koçak leg. *mountain steppe.* - 5♂ 46: Göksun: B.Çamurlu- Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak leg. - 4♂ 47: Nusaybin: Beyazsu N., 0700m, 03 04 2005, M.Kemal leg. - 3♂ 47: Nusaybin: Marine, 0600m, 02 04 2005, I.Akdeniz leg. *Inhabits on arable fields; larva on Aristolochia bottae.* - 1♂ 65: Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak leg. - 1♂ 65: Van: Kurubaş, 1920m. 29 04 2001, M.Kemal & A.Koçak leg. *in wet mountain meadows where Muscari and Ranunculus communities occur; it feeds frequently on the nectar of Muscari sp.* - 1♂ 65: Van: Kurubaş, 1900m. 12 05 2001, M.Kemal & A.Koçak leg. - 11♂ 1♀ 65: Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Çatak 6km S., 1540m. 24 05 2001, M.Kemal & A.Koçak leg. - 4♂ 1♀ 65: Çatak: Narlı, Dalbastı, 1750m. 25 05 2001, M.Kemal & A.Koçak leg. - 2♂ 1♀ 65: Çatak: Çatak 10km S., 1510m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♀ 65: Çatak: Gölgepinar, 1500m. 15 06 2002, M.Kemal & A.Koçak leg. - 65: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak obs. - 1♂ 65: Çatak: Dalbastı meşeliği, 1650m. 07 06 2003, M.Kemal & A.Koçak leg.

Archon apollinaris 3♂ 21: Silvan: Silvan 10km E, 0830m, 07 04 2005, M.Kemal leg. - 30: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal obs. - 1♂ 1♀ 30: Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.* - 3♂ 47: Midyat: Erhil, 0800m, 03 04 2005, M.Kemal leg. - 9♂ 4♀ 47: Nusaybin: Marine, 0600m, 02 04 2005, I.Akdeniz leg. *inhabits on arable fields; larva on Aristolochia bottae.* - 1♀ 65: Van: Zeve, Kampüs, 1700m. 11 04 2001, M.Kemal & A.Koçak leg. - 8♂ 1♀ 65: Van: Zeve, Kampüs, 1800m. 20 04 2001, M.Kemal & A.Koçak leg. - 65: Van: North of Kampüs, Tevekli, 1800m. 28 04 2001, M.Kemal & A.Koçak obs. - 57♂♀ 65: Van: Kurubaş, 1920m. 29 04 2001, M.Kemal & A.Koçak leg. *in wet mountain meadows where Muscari and Ranunculus communities occur; It feeds frequently on the nectar of Muscari sp.* - 2♂ 2♀ 65: Van: Kurubaş, 1900m. 12 05 2001, M.Kemal & A.Koçak leg. - 13 caterpillars 65: Van: Zeve, Kampüs, 1700m. 21 05 2001,

M.Kemal & A.Koçak leg. *caterpillars on Aristolochia bottae*. - 12 caterpillars **65**: Van: Zeve, Kampüs, 1700m. 21 05 2001, M.Kemal & A.Koçak leg. - 5 caterpillars **65**: Van: Zeve, Kampüs, 1700m. 04 06 2001, M.Kemal leg. *caterpillars on Aristolochia bottae*. - 2♂ 1♀ **65**: Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65**: Çatak: Çatak 5km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Çatak: Çatak 6km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Şehzade Pınarı, 1350m. 03 05 2003, M.Kemal leg. *Rocky stony mountain slope covered by degraded mixed forest (Quercus, Celtis, Prunus, Crataegus) with Populus plantation and degraded malacophyllous plants and grasses*.

Archon apollinus 46: Göksun: B.Çamurlu- Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak obs. - **Archon apollinus amasinus** 1♀ **06**: Keçiören: Bağlum, 1300m 02 05 1999, A.Koçak & M.Kemal leg. - 19♂♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 04 05 2000, A.Koçak & M.Kemal leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - larva **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 1♀ **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1300m 01 05 1999, A.Koçak & M.Kemal leg. - 10♂ 2♀ **63**: Hilvan: Hilvan 20km E, 0700m, 07 04 2005, M.Kemal leg. - **Archon apollinus wagneri** 4♂ 1♀ **27**: Suruç: Suruç 10km N, 0700m, 07 04 2005, M.Kemal leg. - **Archon apollinus bellargus** laid eggs **31**: Akbes, 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *Mediterranean degraded woodland margin and roadside*. - eggs on *Aristolochia* **31**: Antakya, Harbiye 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation*. - 20♂♀ **31**: Antakya: Şenköy, 0850-1000m, 09 04 2005, M.Kemal leg. - 1♂ **31**: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg. - 3♂ **31**: Yayladağı: Yeditepe yolu çeşme, 0530m, 19 04 2007, M.Kemal & A.Koçak leg. - 5♂ 1♀ **31**: Yayladağı: Anten yolu, Laleli, 1050m, 19 04 2007, M.Kemal & A.Koçak leg. - 3♂ **31**: Yayladağı: Şenköy, 0870m, 19 04 2007, M.Kemal & A.Koçak leg.

Iphiclides podalirius 06: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal obs. - 1♀ **06**: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 1♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak obs.- **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak obs. - **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal obs. - video record **06**: Sincan: Mülk, Ayaş Mts. E., 1150m 06 08 2000, M.Kemal - 1♂ (observed) **06**: Yenimahalle: Lezgi, 1050m 18 07 1998, A.Koçak & M.Kemal obs. - **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal obs. - **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1300m 01 05 1999, A.Koçak & M.Kemal obs. - a male observed **06**: Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal - **06**: Çubuk: Aydos Dağı: Deremhisar, 1650m. 16 05 1999, A.Koçak & M.Kemal obs. - 1♂ **12**: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings*. - 1♂ **13**: Tatvan: Tatvan 30km E, 1800m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♀ **13**: Tatvan: Reşadiye W, 1670m, 27 06 2006, M.Kemal & A.Koçak leg. - **13**: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal, A.Koçak obs. - **30**: Şemdinli: Şapatan geçidi N, 1560m. 19 05 2003, M.Kemal obs. - **30**: Şemdinli: Şapatan geçidi S, 1700-1900m. 19 05 2003, M.Kemal obs. - 1♀ **30**: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - **48**: Bodrum: Akarlar, 0050m, 15 06 2005, A.Koçak leg. - 2♂ **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 1♂ **49**: Buğlan geçidi E, 1650m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus-Vicia community*. - 1♀ **65**: Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - **65**: Çatak: Çatak 10km S., 1510m. 25 05 2001, M.Kemal & A.Koçak obs. - 1♂ **65**: Çatak: Çatak 3km S., 1540m. 26 05 2001, M.Kemal & A.Koçak leg. - 3♂ **65**: Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Amata vadisi, 1600m. 15 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Amata vadisi, 1600m. 19 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Atlıhan, 1200m. 17 05 2003, A.Koçak & M.Kemal leg. *Rocky stony mountain slope covered by degraded mixed forest (Quercus, Celtis, Prunus, Crataegus) with degraded malacophyllous plants and grasses*. - 1♀ **65**: Çatak: Amata vadisi, 1650m 02 06 2003, M.Kemal & A.Koçak leg. - 5♂ **65**: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak leg.

Papilio (Alexanoria) alexanor orientalis 1♂ **65**: Çatak: Amata vadisi, 1650m 02 06 2003, M.Kemal & A.Koçak leg. - **12**: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings*. - **Papilio alexanor eitschbergeri** 1♂ **06**: Kızılcahamam: Soğuksu, 1000m 01 06 1998, E.Demir leg.

Papilio machaon syriacus 1♀ **06:** Keçiören: Bağlum, 1300m 02 05 1999, M.Kemal leg. - 1♂ **06:** Sincan: Yenikent, 0750m. 16 04 2000, M.Kemal & E.Demir leg. - 1♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 04 05 2000, A.Koçak & M.Kemal leg. - 1♂ 1♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 07 05 2000, A.Koçak & M.Kemal leg. - 1 larva **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - 1♀ **06:** Sincan: Mülk, Ayaş Mts. E., 1150m 06 08 2000, A.Koçak & M.Kemal leg. - **06:** Yenimahalle: Memlik, 1300m 18 07 1998, A.Koçak & M.Kemal obs. - 1♂ **06:** Yenimahalle: Karyağdı Dağı, Memlik, 1250m 24 04 1999, A.Koçak leg. - **06:** Yenimahalle: Karyağdı Dağı, Memlik, 1300m 01 05 1999, A.Koçak & M.Kemal obs. - a male observed **06:** Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal - **13:** Tatvan: Nemrut Krateri dış yamaçlar, 2310m, 09 06 2007, M.Kemal, A.Koçak obs. - **13:** Tatvan: Nemrut Krateri, 2430m, 09 06 2007, A.Koçak obs. - 1♂ **27:** Suruç: Suruç 10km N, 0700m, 07 04 2005, M.Kemal leg. - **30:** Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal obs. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.* - **46:** Göksun: B.Çamurlu-Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak obs. - 1♂ **48:** Bodrum: Akyarlar, 0005m, 14 06 2005, M.Kemal leg. - **58:** Gürün: Höyükliuyurt, 1700m 27 06 2004, M.Kemal & A.Koçak leg. - **65:** Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, A.Koçak obs. - 1♂ **65:** Gevaş: Kuzgunkıran geçidi, 2250m 26 06 2004, M.Kemal & A.Koçak leg. - 1♀ **65:** Çatak: Yenimahalle, 1900m. 02 06 2003, A.Koçak leg. - **80:** Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M.Kemal leg.

Parnassius (Driopa) mnemosyne caucasia 1♀ **06:** Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - **Parnassius (Driopa) mnemosyne ssp.** 2♂ **12:** Bingöl: Kuruca göleti, 1720m, 02 06 2007, M.Kemal & A.Koçak leg. **Parnassius (Driopa) mnemosyne sheljuzhkoii** 2♂ 1♀ **46:** Göksun: Keklikoluk, 1700m, 06 06 2006, M.Kemal & A.Koçak leg. *mountain steppe.* - 1♂ **46:** Göksun: B.Çamurlu- Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak leg. - **Parnassius (Driopa) mnemosyne nubilosus** 2♂ 1♀ **65:** Çatak: Narlı: Övecek, 1400m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65:** Bahçesaray: Karabel Pass, 3000m. 14 07 2001, M.Kemal & A.Koçak leg. *Species inhabits at tragacanthic mountain steppe.* - 2♀ **65:** Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 1♂ **65:** Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - 13♂ **65:** Çatak: Narlı, Dalbastı, 1750m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 10km S., 1510m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 5km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 3♂ 1♀ **65:** Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♀ **65:** Çatak: Karabel Pass, 2700m. 27 07 2001, M.Kemal & A.Koçak leg. *Species inhabits at tragacanthic mountain steppe.* - 1♂ **65:** Çatak: Gölgepınar, 1500m. 15 06 2002, M.Kemal & A.Koçak leg. - **65:** Çatak: Dalbastı meşeliği, 1650m. 07 06 2003, M.Kemal & A.Koçak obs.

Parnassius (s.str.) apollo graslini 1♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 17 07 2004, M.Kemal leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.*

Pieridae

Anthocharis cardamines cardamines 1♂ **06:** Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 5♂♀ **06:** Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06:** Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06:** Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 2♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - 3♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 4♂ 1♀ **06:** Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 4♂ **06:** Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 1♀ **06:** Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06:** Çubuk: Aydos Dağı, 1650m. 16 05 1999, A.Koçak & M.Kemal leg. - 6♂ **06:** Çubuk: Aydos Dağı: Deremhisar, 1650m. 16 05 1999, A.Koçak & M.Kemal leg. - 4♂ 1♀ **11:** Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills.* - 2♂ **13:** Tatvan: Reşadiye 2km W, 1700m, 26 05 2007, M.Kemal & A.Koçak leg. - **30:** Şemdinli: Şapatan geçidi N, 1560m. 19 05 2003, M.Kemal obs. - 1♀ **31:** 0440m, 21 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation.* - 1♂ **31:** Harbiye: Harbiye S, 0440m, 20 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation.* - 1♂ 1♀ **31:** Şenköy, Yukarı Uçlar, 0470m, 20 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation.* - 6♂ 1♀ **47:** Nusaybin: Beyazsu N., 0700m, 03 04 2005, M.Kemal leg. - 1♀ **49:** Muş: Buğlan geçidi, 1550m, 26 05 2007, M.Kemal & A.Koçak leg. - **65:** Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak obs. - **65:** Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal obs. - 2♂ **65:** Çatak: Aşağı Narlıca, 2150m. 19 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Dalbastı 3km S, 1300m. 17 05 2003, M.Kemal & A.Koçak leg. *Hilly place covered by mixed forest (Quercus, Crataegus, Prunus, Acer, Celtis), with*

malacophyllous plants and grasses. - 3♂ 65: Çatak: Kayaboğaz S., Köprüaltı, 2100m 17 05 2003, M.Kemal & A. Koçak leg. - 65: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak obs. - 5♂ 4♀ 65: Çatak: Dalbastı 3km S, 1300m, 30 04 2005, M.Kemal & A. Koçak leg. - 2♂ 65: Çatak: Şehzade Pınarı, 1350m, 30 04 2005, M.Kemal & A. Koçak leg. - 1♀ 80: Osmaniye: Amanoslar, Ürün Yaylası, 0750m, 08 04 2005, M.Kemal leg. *female laid egg on leaves of Brassicaceae.* - 2♂ 80: Osmaniye: Amanoslar, Ürün Yaylası, 0950m, 08 04 2005, M.Kemal leg. - 2♂ 80: Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M. Kemal leg. - ***Anthocharis cardamines cardamines / phoenissa*** 9♂ 30: Şemdinli: Şapatan geçidi S, 1900m. 19 05 2003, M.Kemal leg. - 2♂ 2♀ 30: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 4♂ 65: Çatak: Şehzade Pınarı, 1350m. 03 05 2003, M.Kemal leg. *Rocky stony mountain slope covered by degraded mixed forest (Quercus, Celtis, Prunus, Crataegus) with Populus plantation and degraded malacophyllous plants and grasses.* - 9♂ 65: Çatak: Dalbastı 3km S, 1300m. 04 05 2003, M.Kemal leg. *Hilly place covered by mixed forest (Quercus, Crataegus, Prunus, Acer, Celtis), with malacophyllous plants and grasses.* - 1♂ 30: Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.*

Anthocharis damone eunomia 1♂ 1♀ 13: Tatvan: Nemrut Krateri, İlköl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 4♂ 1♀ 13: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ 13: Tatvan: Nemrut Krateri, İlköl üstü, 2300m, 09 06 2007, M.Kemal, A.Koçak leg. - 30: Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal obs. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.* - 1♂ 30: Şemdinli: Şapatan geçidi N, 1560m. 19 05 2003, M.Kemal leg. - 3♂ 30: Şemdinli: Şapatan geçidi S, 1900m. 19 05 2003, M.Kemal leg. - 2♂ 65: Gevaş: Göründü N., 1680m, 28 05 2009, A.Koçak & M.Kemal leg. - 3♂ 65: Gürpınar: Çatak dibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Aşağı Narlıca, 2150m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Onağıl kavşağı, 2060m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Aşağı Narlıca, 2150m. 27 05 2001, M.Kemal & A.Koçak leg. - 7♂ 65: Çatak: Yukarı Narlıca 15km E., 2650m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Şehzade Pınarı, 1350m. 03 05 2003, M.Kemal leg. *Rocky stony mountain slope covered by degraded mixed forest (Quercus, Celtis, Prunus, Crataegus) with Populus plantation and degraded malacophyllous plants and grasses.* - 2♂ 65: Çatak: Şehzade Pınarı, 1350m, 30 04 2005, M.Kemal & A. Koçak leg.

Anthocharis grueneri grueneri 1♂ 06: Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - 1♀ 06: Çubuk: Aydos Dağı: Deremhisar, 1650m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ 31: Yayladağı: Şenköy, 0870m, 19 04 2007, M.Kemal & A.Koçak leg. - 1♂ 38: Develi: Gezbeli W, 1910m, 31 05 2007, M.Kemal & A.Koçak leg. *Butterfly sips nectar from Aethionema sp.* - 1♂ 38: Pınarbaşı: Pınarbaşı 5km W, 1550m, 28 04 2007, M.Kemal & A.Koçak leg. *openings of Quercus woodlands.* - ***Anthocharis grueri armeniaca*** 1♀ 13: Tatvan: Nemrut Krateri dış yamaçlar, 2310m, 09 06 2007, M.Kemal, A.Koçak leg. - 2♂ 1♀ 65: Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak leg. *Butterflies feed on Aethionema sp.* - 1♂ 65: Van: W. of Erçek gölü, 1920m. 06 05 2001, M.Kemal & A.Koçak leg. - 9♂ 65: Çatak: Aşağı Narlıca, 2150m. 19 05 2001, M.Kemal & A.Koçak leg. - 3♂ 65: Çatak: Onağıl kavşağı, 2060m. 19 05 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Aşağı Narlıca, 2150m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Kayaboğaz S., Köprüaltı, 2100m 17 05 2003, M.Kemal & A. Koçak leg. - 1♂ 65: Çatak: Şehzade Pınarı, 1350m, 30 04 2005, M.Kemal & A. Koçak leg. - 1♂ 65: Gürpınar: Çatak dibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg.

Aporia (s.str.) crataegi 06: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - 06: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal obs. *Butterflies sip nectar of Vicia cracca.* - 2♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 3♂ 06: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 3♂ 3♀ 12: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 3♂ 1♀ 13: Bitlis: Bitlis 10km SW, 1400m. 12 06 2002, M.Kemal & A.Koçak leg. - 1♀ 13: Sarikonak: Kasiş, 1050m. 12 06 2002, M.Kemal & A.Koçak leg. - 2♂ 13: Tatvan: Reşadiye 5km W, 1750m. 11 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland margins.* - 1♂ 13: Bitlis: Baykan 37km NW, 1350m, 04 06 2006, M.Kemal & A.Koçak leg. - 1♂ 13: Tatvan: Tatvan 30km E, 1800m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 13: Tatvan: Tatvan 57km E, 1920m. 25 06 2001, A.Koçak & M.Kemal leg. - 13: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak obs. - 13: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak obs. *Tragacanthic degraded mountain steppe.* - 13: Tatvan: Reşadiye W, 1670m, 27 06 2006, M.Kemal obs. *feeds on Echium italicum.* - Full grown larva 13: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal leg. - 30: Şemdinli: Şapatan geçidi S, 1700-1900m. 19 05 2003, M.Kemal obs.

Larvae feed on Prunus sp. - 1♂ 7♀ **38**: Develi: Erciyas Dağı, 1700m, 06 06 2006, M.Kemal & A.Koçak leg. - **38**: Melikgazi: Erciyes, Hisarcık, 1820m, 31 05 2007, M.Kemal & A.Koçak leg. - 2♂ **49**: Buğlan geçidi E, 1650m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus-Vicia community.* - **50**: Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak obs. - 1♂ **65**: Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Gevaş: İnköy 4km E., 1860m. 02 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 6km S., 1540m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 5km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 4♂ **65**: Çatak: Narlı: Övecek, 1400m. 26 05 2001, M.Kemal & A.Koçak leg. - 3♂ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - **65**: Çatak: Amata vadisi, 1600m. 15 06 2002, M.Kemal & A.Koçak obs. - 1♂ **65**: Çatak: Atlıhan, 1200m. 19 06 2002, M.Kemal & A.Koçak leg. - 3 larvae **65**: Çatak: Dalbastı 3km S, 1300m. 17 05 2003, M.Kemal & A. Koçak leg. *Hilly place covered by mixed forest (Quercus, Crataegus, Prunus, Acer, Celtis), with malacophyllous plants and grasses. Larvae on Crataegus sp.* - 1♂ **65**: Çatak: Dalbastı 3km S, 1300m. 30 05 2003, M.Kemal & A.Koçak leg. *Butterflies feed on Rosa canina, Colutea cilicica, Cardaria draba.* - 7♂ **65**: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak leg. - **65**: Çatak: Dalbastı meşeliği, 1650m. 07 06 2003, M.Kemal & A.Koçak obs. - 2 larvae (video). **65**: Çatak: Dalbastı 3km S, 1300m, 30 04 2005, M.Kemal & A. Koçak leg.

Colias alfacariensis bergeri 9♂♀ **06**: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - **06**: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - 3♂ 1♀ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 1♂ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 1♂ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06**: Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Çubuk: Aydos Dağı: Deremhisar, 1650m. 16 05 1999, A.Koçak & M.Kemal leg. - 6♂♀ **06**: Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 5♂ **06**: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 04 05 2000, A.Koçak & M.Kemal leg. - 3♂ 1♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 07 05 2000, A.Koçak & M.Kemal leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - 10♂ 3♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 5♂ 2♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - 4♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 2♂ 1♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg. - 1♀ **06**: Sincan: Ayaş Dağları E, 1150m. 07 07 2001, A.Koçak & M.Kemal leg. - 1♂ **27**: Suruç: Suruç 10km N, 0700m, 07 04 2005, M.Kemal leg. - **38**: Melikgazi: Erciyes, Hisarcık, 1820m, 31 05 2007, M.Kemal & A.Koçak obs. - 2♂ **46**: Göksun: B.Çamurlu- Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak leg.

Colias aurorina aurorina 1♀ (observed) **06**: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♂ **12**: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 1♀ **58**: Gürün: Höyükliuyurt, 1700m 27 06 2004, M.Kemal & A.Koçak leg. - **65**: Gevaş: Yoldöndü, Kuzgunkıran E, 2230m. 25 06 2001, A.Koçak & M.Kemal obs.

Colias crocea 1♀ **06**: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ 1♀ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 1♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg. - 1♂ 1♀ **06**: Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 3♂ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 1♀ **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1350m. 23 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06**: Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 2♀ **06**: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 1♂ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 1♂ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 23 07 1998, A.Koçak & M.Kemal leg. - 1♀ **06**: Yenimahalle: Memlik, Kayalık, 1170m 23 07 1998, A.Koçak & M.Kemal leg. - 2♂ 1♀ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 1♀ **06**: Yenimahalle: Memlik, 1300m 15 08 1998, A.Koçak & M.Kemal leg. - 1♂ **11**: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills.* - **12**: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak obs. *Species inhabits in Quercus woodland openings.* - **13**: Bitlis: Baykan 37km NW, 1350m, 04 06 2006, M.Kemal obs. - **13**: Sarıkonak: Kasih, 1050m. 12 06 2002, M.Kemal & A.Koçak obs. - 1♀ **13**: Tatvan: Tatvan 45km E,

1870m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 1♀ **13**: Tatvan: Tatvan 57km E, 1920m. 25 06 2001, A.Koçak & M.Kemal leg. - **13**: Tatvan: Nemrut Krateri dış yamaçlar, 2310m, 09 06 2007, A.Koçak obs. - 1♀ **13**: Tatvan: Nemrut Krateri, İlköl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ **13**: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal, A.Koçak leg. - 5♀♀ **30**: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 1♀ **30**: Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.* - 1♀ **30**: Şemdinli: Şapatan geçidi N, 1560m. 19 05 2003, M.Kemal leg. - **30**: Şemdinli: Şapatan geçidi S, 1700-1900m. 19 05 2003, M.Kemal obs. - 1♀ **31**: 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation.* - 1♀ **31**: Akbes, 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *Mediterranean degraded woodland margin and roadside.* - 1♂ **31**: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg. - 1♀ **31**: Yayladağı: Şenköy, 0870m, 19 04 2007, M.Kemal & A.Koçak leg. - **31**: Şenköy, Yukarı Uçlar, 0470m, 20 04 2007, M.Kemal obs. *margin of degraded macchie vegetation.* - 1♀ **38**: Melikgazi: Erciyes, Hisarcık, 1820m, 31 05 2007, M.Kemal & A.Koçak leg. - 2♀ **38**: Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg. - **44**: Darende: Darende W, 1100m, 17 06 2006, M.Kemal obs. - 1♀ **46**: Göksun: B.Çamurlu-Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak leg. - **46**: Göksun: Karaömer E, 1375m, 01 06 2007, M.Kemal & A.Koçak obs. - 3♀♀ **47**: Nusaybin: Marine, 0600m, 02 04 2005, I.Akdeniz leg. *inhabits on arable fields.* - 1♂ **47**: Nusaybin: Beyazsu N., 0700m, 03 04 2005, M.Kemal leg. - **48**: Bodrum: Akyarlar, 0050m, 15 06 2005, A.Koçak obs. - 2♂ **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 1♂ **49**: Muş: Buğlan geçidi, 1600m, 16 07 2004, M.Kemal & A.Koçak leg. - 1♂ **49**: Muş: Buğlan geçidi, 1695m, 16 07 2004, M.Kemal & A.Koçak leg. *Openings of the remnant Quercus forest.* - 2♀ **56**: Siirt: Siirt 5km S, 0750m, 01 04 2005, M.Kemal leg. - 1♀ **56**: Siirt: Veysel Karani (Ziyaret) 10km S, 0650m, 01 04 2005, M.Kemal leg. - 1♀ **58**: Gürün: Höyüklyurt, 1700m 27 06 2004, M.Kemal & A.Koçak leg. - 1♀ **65**: Bahcesaray: Karabel Pass, 3000m. 14 07 2001, M.Kemal & A.Koçak leg. *Species inhabits at tragacanthic mountain steppe.* - 1♂ **65**: Gevaş: Kızıltaş 3km S., 1980m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 1♂ **65**: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* - 1♀ **65**: Gevaş: Malumkişiler geçidi, 2500m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* - 1♀ **65**: Gevaş: Malumkişiler geçidi, 2350m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* - **65**: Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak obs. - 2♂ **65**: Gürpınar: Göldarı, 2350m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community.* - 1♂ 2♀ **65**: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♀ **65**: Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♀ **65**: Gürpınar: Kırkgeçit S., 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 3♀ **65**: Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 2♂ **65**: Van: Zeve, Kampüs, 1700m. 17 04 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Van: Zeve, Kampüs, 1700m. 20 04 2001, M.Kemal & A.Koçak leg. - **65**: Van: North of Kampüs, Güllü, 1820m. 28 04 2001, M.Kemal & A.Koçak obs. - 1♂ **65**: Van: Kurubaş, 1900m. 12 05 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Van: Zeve, Kampüs, 1700m. 19 06 2001, M.Kemal leg. - 1♀ **65**: Van: Kurubaş geçidi, 2100m. 18 07 2001, M.Kemal & A.Koçak leg. *Butterflies inhabits in tragacanthic mountain steppe.* - 1♂ 2♀ **65**: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community.* - **65**: Van: Erek Dağı, Kurubaş 7km E, 2100m. 08 06 2002, M.Kemal & A.Koçak obs. - 1♂ **65**: Çatak: Aşağı Narlıca, 2150m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Çatak: Onağıl kavşağı, 2060m. 19 05 2001, M.Kemal & A.Koçak leg. - 2♂ 1♀ **65**: Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65**: Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65**: Çatak: Onağıl kavşağı, 2060m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Çatak: Narlı, Dalbastı, 1750m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - **65**: Çatak: Karabel Pass, 3000m. 27 05 2001, M.Kemal & A.Koçak obs. - 1♂ **65**: Çatak: Yukarı Narlıca 15km E., 2650m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Kayaboğaz, Gültekçe, 2300m. 10 06 2001, M.Kemal & A.Koçak leg. *Species inhabits on Prangos, Ferula, Astragalus, Coronilla community.* - 1♂ **65**: Çatak: Kayaboğaz, Gültekçe, 2300m. 13 06 2001, M.Kemal & A.Koçak leg. *Species inhabits on Prangos, Ferula, Astragalus, Coronilla community.* - 1♀ **65**: Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg. - **65**: Çatak: Amata vadisi, 1600m. 15 06 2002, M.Kemal & A.Koçak obs. - **65**: Çatak: Atlıhan, 1200m. 19 06 2002, M.Kemal & A.Koçak obs. *Butterfly feeds on Knautia sp.* - 1♀ **65**: Çatak: Dalbastı 3km S, 1300m. 17 05 2003, M.Kemal & A. Koçak leg. *Hilly place covered by mixed forest (Quercus, Crataegus, Prunus, Acer, Celtis), with malacophyllous plants and grasses.* - **65**: Çatak: Amata vadisi, 1650m 02 06 2003, M.Kemal & A.Koçak obs. - **65**: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak obs. - 1♀ **65**: Çatak: Dalbastı 3km S, 1300m, 30 04 2005, M.Kemal & A. Koçak leg. - 2♂ **65**: Gevaş: Göründü N., 1680m, 06 06 2009, A.Koçak & M.Kemal leg. - 2♀ **65**: Gevaş: Altınsaç N, 1840m, 06 06 2009,

A.Koçak & M.Kemal leg. - 1♀ **73**: Cizre: Cizre 10km N, 0600m, 01 04 2005, M.Kemal leg. - 2♂ **80**: Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M.Kemal leg.

Euchloe (Elphinstonia) penia penia 2♂ **65**: Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak leg.

Euchloe ausonia 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. - 1♂ **06**: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1350m. 23 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 3♂ **27**: Suruç: Suruç 10km N, 0700m, 07 04 2005, M.Kemal leg. - 1♂ **31**: 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation*. - 1♂ **31**: 0440m, 21 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation*. - 1♂ **31**: Akbes, 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *Mediterranean degraded woodland margin and roadside*. - 3♂ **40**: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♀ **50**: Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ 1♀ **63**: Çamlidere: Çamlidere E., Çoban Boğazı, 0550m, 18 04 2007, M.Kemal & A.Koçak leg. *Calcareous rocks with grazed malacophyllous and grass steppe communities with Salvia spp.* - 1♂ **65**: Çatak: Yukarı Narlıca 15km E., 2650m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ **80**: Osmaniye: Amanoslar, Ürün Yaylası, 0950m, 08 04 2005, M.Kemal leg. - 7♂ 1♀ **80**: Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M.Kemal leg.

Euchloe belemia 1♂ **31**: Antakya: Harbiye 10km S, 0500m, 09 04 2005, M.Kemal leg.

Gonepteryx cleopatra taurica 1♂ 1♀ **31**: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg. - **31**: Şenköy, Yukarı Uçlar, 0470m, 20 04 2007, M.Kemal obs. *margin of degraded macchie vegetation*. - 2♂ 1♀ **80**: Osmaniye: Amanoslar, Ürün Yaylası, 0750m, 08 04 2005, M.Kemal leg. *butterflies feed on Saponaria flower*. - 1♂ **80**: Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M.Kemal leg.

Gonepteryx farinosa 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal obs. - 1♂ 1♀ **80**: Osmaniye: Amanoslar, Ürün Yaylası, 0750m, 08 04 2005, M.Kemal leg.

Gonepteryx rhamni 1♀ **06**: Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06**: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 1♂ **11**: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills*. - 1♂ **13**: Bitlis: Baykan 37km NW, 1350m, 04 06 2006, M.Kemal & A.Koçak leg. - 2♀ **13**: Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, H.Özkoç, L.Kayci, M.Kemal, A.Koçak leg. - 1♀ **31**: 0440m, 21 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation*. - 1♂ **31**: Şenköy, Yukarı Uçlar, 0470m, 20 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation*. - 1♂ **49**: Muş: Buğlan geçidi, 1600m, 16 07 2004, M.Kemal & A.Koçak leg. - 1♂ **49**: Muş: Buğlan geçidi, 1695m, 16 07 2004, M.Kemal & A.Koçak leg. *Openings of the remnant Quercus forest*. - 2♂ **80**: Osmaniye: Amanoslar, Ürün Yaylası, 0950m, 08 04 2005, M.Kemal leg. - **Gonepteryx rhamni kurdistanica** males observed **30**: Şemdinli: Şapatan geçidi S, 1700-1900m. 19 05 2003, M.Kemal - 1♂ **30**: Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed*. - 1♂ **65**: Van: Zeve, Kampüs, 1700m. 11 04 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Aşağı Narlıca, 2150m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 5km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - 4♂ **65**: Çatak: Yukarı Narlıca 15km E., 2650m. 27 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Kayaboğaz S., Köprüaltı, 2100m 17 05 2003, M.Kemal & A. Koçak leg. - **65**: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak obs. - 1♂ **65**: Çatak: Dalbastı 3km S, 1300m, 30 04 2005, M.Kemal & A. Koçak leg.

Leptidea duponcheli **06**: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. *Butterflies sip nectar of Vicia cracca*. - 10♂♀ **06**: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 3♂ **06**: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Sincan: Yenikent, 0750m. 16 04 2000, M.Kemal & E.Demir leg. - 5♂♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 07 05 2000, A.Koçak & M.Kemal leg. - 5♂♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - 5♂♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal &

A.Koçak leg. - 7♂♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 06 2000, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Memlik, Kayalık, 1170m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 8♂♀ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 2♂ **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 4♂ **06**: Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 3♂ **06**: Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06**: Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **11**: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills*. - 1♂ **13**: Tatvan: Reşadiye 5km W, 1750m. 11 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland margins*. - 1♂ **13**: Tatvan: Reşadiye 2km W, 1700m, 26 05 2007, M.Kemal & A.Koçak leg. - 1♂ **13**: Tatvan: Nemrut Krateri, Ilıkgöl üstü, 2300m, 09 06 2007, H.Özkol, L.Kayci, M.Kemal, A.Koçak leg. - 4♂ **30**: Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed*. - 2♂ **30**: Şemdinli: Şapatan geçidi N, 1560m. 19 05 2003, M.Kemal leg. - 2♂ **30**: Şemdinli: Şapatan geçidi S, 1700-1900m. 19 05 2003, M.Kemal leg. - 2♂ **38**: Develi: Gezbeli W, 1910m, 31 05 2007, M.Kemal & A.Koçak leg. - 1♂ **65**: Gevaş: Göründü N., 1680m, 28 05 2009, A.Koçak & M.Kemal leg. - 2♂ **65**: Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - **65**: Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak obs. - 2♂ **65**: Gürpınar: Gölet, 2050m. 09 06 2002, A.Koçak, H.Özkol & L.Kayci leg. - 2♂ **65**: Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 1♂ **65**: Van: W. of Erçek gölü, 1920m. 06 05 2001, M.Kemal & A.Koçak leg. - 3♂ **65**: Van: Kurubaş geçidi, 2100m. 18 07 2001, M.Kemal & A.Koçak leg. *Butterflies inhabits in tragacanthic mountain steppe*. - 2♂ **65**: Van: Erek Dağı, Kurubaş 7km E, 2100m. 08 06 2002, M.Kemal & A.Koçak leg. - 3♂ **65**: Van: Kurubaş geçidi N, 2100m. 10 06 2003, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Onağıl kavşağı, 2060m. 19 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Narlı, Dalbastı, 1750m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 10km S., 1510m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Aşağı Narlıca, 2150m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Saklıvadi, 2050m. 15 06 2002, M.Kemal & A.Koçak leg.

Leptidea sinapis 7♂ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 4♂ **06**: Çubuk: Aydos Dağı, 1650-1800m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 1♂ **11**: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills*. - 1♂ **12**: Bingöl: Bingöl 8km W, 1350m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland and butterfly feeds on Thymus*. - 1♂ **13**: Tatvan: Reşadiye 2km W, 1700m, 26 05 2007, M.Kemal & A.Koçak leg. - 1♂ **30**: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 2♂ **31**: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg. - 1♂ **65**: Çatak: Amata vadisi, 1650m 02 06 2003, M.Kemal & A.Koçak leg.

Pieris brassicae a female observed **06**: Çubuk: Aydos Dağı: Deremhisar, 1650m. 16 05 1999, A.Koçak & M.Kemal obs. - 1♂ **11**: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills*. - **13**: Tatvan: Nemrut Krateri dış yamaçlar, 2310m, 09 06 2007, A.Koçak obs. - **13**: Tatvan: Nemrut Krateri, 2430m, 09 06 2007, A.Koçak obs. - 1♂ **13**: Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ **13**: Tatvan: Nemrut Krateri, Ilıkgöl üstü, 2300m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♀ **30**: Şemdinli: Şapatan geçidi S, 1700m. 19 05 2003, M.Kemal leg. - 1♂ **30**: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 1♂ **31**: 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation*. - 1♂ 1♀ **31**: 0440m, 21 04 2007, M.Kemal & A.Koçak leg. *margin of degraded macchie vegetation*. - 1♂ **31**: Akbes, 0440m, 18 04 2007, M.Kemal & A.Koçak leg. *Mediterranean degraded woodland margin and roadside*. - 1♀ **31**: Antakya: Harbiye 10km S, 0500m, 09 04 2005, M.Kemal leg. - 2♂ 1♀ **31**: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg. - **38**: Melikgazi: Erciyes, Hisarcık, 1820m, 31 05 2007, M.Kemal & A.Koçak obs. - 2♂ **38**: Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg. - 1♂ **38**: Pınarbaşı: Pınarbaşı, 1500m, 18 07 2004, A.Koçak & M.Kemal leg. *Rocky, grassy slopes with deciduous Quercus forest remnants*. - 2♂ **44**: Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♀ **46**: Göksun: B.Çamurlu- Yoğunoluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak leg. - **46**: Göksun: Kanlıkavak E, 1420m, 01 06 2007, M.Kemal & A.Koçak obs. - **48**: Bodrum: Akyarlar, 0005m, 14 06 2005, M.Kemal leg. - 1♂ 1♀ **48**: Bodrum: Yahşi civarı,

0100m, 15 06 2005, A.Koçak leg. - 1♂ **48:** Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 3♂ **56:** Siirt: Siirt 5km S, 0750m, 01 04 2005, M.Kemal leg. - 1♂ 3♀ **65:** Gevaş: Göründü N., 1680m, 06 06 2009, A.Koçak & M.Kemal leg. - 2♂ **65:** Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 3♂ **80:** Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M.Kemal leg. - 1♂ **65:** Çatak: Aşağı Narlıca, 2150m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♀ **65:** Çatak: Amata vadisi, 1650m 02 06 2003, M.Kemal & A.Koçak leg.

Pieris ergane 4♂♀ **06:** Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 1♂ **06:** Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♀ **06:** Yenimahalle: Memlik, 1300m 15 08 1998, A.Koçak & M.Kemal leg. - 2♀ **06:** Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 1♀ **13:** Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. - 1♀ **13:** Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic degraded mountain steppe.* - 1♂ 1♀ **30:** Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.* - 3♂ **38:** Develi: Gezbeli W, 1910m, 31 05 2007, M.Kemal & A.Koçak leg. - 1♂ **38:** Melikgazi: Erciyes, Hisarcık, 1820m, 31 05 2007, M.Kemal & A.Koçak leg. - **38:** Pınarbaşı: Pınarbaşı 5km W, 1580m, 16 06 2006, M.Kemal obs. - 2♂ **65:** Gevaş: Göründü N., 1680m, 28 05 2009, A.Koçak & M.Kemal leg. - 1♂ **65:** Gevaş: Göründü N., 1680m, 06 06 2009, A.Koçak & M.Kemal leg. - 1♂ **65:** Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ **65:** Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65:** Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* - 5♂ **65:** Gevaş: Malumkişiler geçidi, 2350m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* - 2♂ **65:** Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak leg. *Butterflies feed on Aethionema sp.* - 2♂ **65:** Çatak: Onağıl kavşağı, 2060m. 19 05 2001, M.Kemal & A.Koçak leg. - 3♂ 3♀ **65:** Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 5km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Onağıl kavşağı, 2060m. 27 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Yukarı Narlıca 15km E., 2650m. 27 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Saklıvadi, 2050m. 15 06 2002, M.Kemal & A.Koçak leg. - **65:** Çatak: Çatak 12km NNE, Kirazlı, 1550m. 28 07 2002, A.Koçak obs. - 1♂ **65:** Çatak: Amata vadisi, 1600m. 07 06 2003, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65:** Çatak: Dalbastı 3km S, 1300m, 30 04 2005, M.Kemal & A. Koçak leg. - 1♂ **65:** Çatak: Şehzade Pınarı, 1350m, 30 04 2005, M.Kemal & A. Koçak leg.

Pieris krueperi 1♂ **65:** Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak leg.

Pieris persis 4♂ 3♀ **65:** Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg.

Pieris pseudorapae suffusa 2♂ **06:** Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06:** Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ 1♀ **06:** Sincan: Yenikent, 0750m. 16 04 2000, M.Kemal & E.Demir leg. - 1♂ **06:** Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♂ **06:** Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 2♂ **11:** Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills.* - 1♀ **13:** Bitlis: Baykan 37km NW, 1350m, 04 06 2006, M.Kemal & A.Koçak leg. - 1♂ **13:** Tatvan: Reşadiye W, 1670m, 27 06 2006, M.Kemal & A.Koçak leg. - 1♂ **13:** Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ **13:** Tatvan: Nemrut Krateri, Ilıkgöl üstü, 2300m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♀ **30:** Şemdinli: Haruna geçidi, 1900m. 19 05 2003, M.Kemal leg. *Its habitat tragacanthic mountain steppe has been greatly degraded and overgrazed.* - 1♂ **30:** Şemdinli: Şapatan geçidi N, 1560m. 19 05 2003, M.Kemal leg. - 8♂ **30:** Şemdinli: Şapatan geçidi S, 1700-1900m. 19 05 2003, M.Kemal leg. - 3♂ **30:** Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 1♂ **56:** Baykan: Üççeşme, 0750m, 07 04 2005, M.Kemal leg. - 1♂ **63:** Siverek: Siverek, 0700m, 07 04 2005, M.Kemal leg. - 1♂ **65:** Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Çatak 6km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Amata vadisi, 1550m. 09 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Şehzade Pınarı, 1350m. 03 05 2003, M.Kemal leg. *Rocky stony mountain slope covered by degraded mixed forest (Quercus, Celtis, Prunus, Crataegus) with Populus plantation and degraded malacophyllous plants and grasses.* - 1♀ **65:** Çatak: Dalbastı 3km S, 1300m, 30 04 2005, M.Kemal & A. Koçak leg. - 1♂ **80:** Osmaniye: Amanoslar, Ürün Yaylası, 0750m, 08 04 2005, M.Kemal leg.

Pieris rapae 06: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - 2♂ 06: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Bala: Üçem köyü, 1200m, 18 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic steppe on hill slopes.* - 1♂ 06: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 3♂ 06: Sincan: Yenikent, 0750m. 16 04 2000, M.Kemal & E.Demir leg. - 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 04 05 2000, A.Koçak & M.Kemal leg. - 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 07 05 2000, A.Koçak & M.Kemal leg. - 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - 2♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - 3♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 2♂ 06: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg. - 2♂ 06: Sincan: Ayaş Dağları E, 1150m. 07 07 2001, A.Koçak & M.Kemal leg. - 1♂ 1♀ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♀ 07: Kaş: Sütleşen, 03 09 1999, Selma & Ergin Çalışkan leg. - 1♂ 11: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills.* - 1♂ 13: Bitlis: Baykan 37km NW, 1350m, 04 06 2006, M.Kemal & A.Koçak leg. - 1♂ 13: Tatvan: Tatvan 45km E, 1870m. 25 06 2001, A.Koçak & M.Kemal leg. - 4♂ 1♀ 13: Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 2♂ 13: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ 13: Tatvan: Nemrut Krateri, Ilıkgöl üstü, 2300m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♀ 21: Silvan: Silvan 10km E, 0830m, 07 04 2005, M.Kemal leg. - 1♂ 30: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 3♂ 1♀ 31: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg. - 2♂ 33: Tarsus: Tarsus 40km N, 0600m, 12 06 2005, A.Koçak & M.Kemal leg. - 3♂ 44: Akçadağ: Sultansuyu Çiftliği, 0870m, 27 05 2007, M.Kemal leg. - 1♂ 46: Göksun: Tekir N., Kurucaova, 1350m, 06 06 2006, M.Kemal & A.Koçak leg. - 1♂ 47: Nusaybin: Beyazsu, 0600m, 02 04 2005, I.Akdeniz leg. - 1♂ 48: Bodrum: Akyarlar, 0050m, 15 06 2005, A.Koçak leg. - 1♂ 48: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 1♂ 50: Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Van: Zeve, Kampüs, 1700m. 11 04 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Van: Zeve, Kampüs, 1700m. 14 04 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Şehzade Pınarı, 1400m. 15 06 2002, M.Kemal & A.Koçak leg. - 4♂ 65: Gevaş: Göründü N., 1680m, 06 06 2009, A.Koçak & M.Kemal leg. - 1♂ 65: Gevaş: Altınış N, 1840m, 06 06 2009, A.Koçak & M.Kemal leg. - 4♂ 65: Gürpınar: Çatak dibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg.

Pontia callidice 4♂ 2♀ 65: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkol & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* - 1♀ 65: Gevaş: Malumkişiler geçidi, 2500m. 02 08 2002, A.Koçak, H.Özkol & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.*

Pontia chloridice 1♂ 13: Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ 65: Gevaş: İnköy 4km E., 1860m. 02 06 2001, M.Kemal leg. - 1♂ 65: Gevaş: Göründü N., 1680m, 06 06 2009, A.Koçak & M.Kemal leg. - 1♂ 65: Çatak: Yukarı Narlıca 15km E., 2650m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Şehzade Pınarı, 1350m, 30 04 2005, M.Kemal & A. Koçak leg.

Pontia edusa 6♂ 06: Ayaş: Akyatak, 1200m. 16 04 2000, M.Kemal & E.Demir leg. - 2♂ 06: Ayaş: Akyatak, 1250m. 07 07 2001, A.Koçak & M.Kemal leg. - 3♂ 06: Sincan: Yenikent, 0750m. 16 04 2000, M.Kemal & E.Demir leg. - 06: Sincan: Mülk, Ayaş Mts. E., 1150m 06 08 2000, A.Koçak & M.Kemal obs. - 1♂ 06: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 2♂ 06: Yenimahalle: Karyağdı Dağı, Memlik, 1250m 24 04 1999, A.Koçak leg. - 1♀ 06: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 1♂ 11: Bilecik: Tünel N, 0520m, 25 04 2007, M.Kemal & A.Koçak leg. *woodland openings, orchards on foothills.* - 4♂ 13: Tatvan: Tatvan 30km E, 1800m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 13: Tatvan: Tatvan 45km E, 1870m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 33: Tarsus: Tarsus 40km N, 0600m, 12 06 2005, A.Koçak & M.Kemal leg. - 1♂ 40: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♀ 44: Akçadağ: Sultansuyu Çiftliği, 0870m, 27 05 2007, M.Kemal leg. - 1♂ 1♀ 44: Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♂ 44: Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♂ 46: Elbistan: Elbistan E, 1200m, 01 06 2007, M.Kemal & A.Koçak leg. - Pier **Pontia edusa** 1♀ 48: Bodrum: Akyarlar, 0050m, 15 06 2005, A.Koçak leg. - 5♂ 48: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 1♀ 49: Solhan:

Buğlan geçidi E, 1370m. 21 06 2002, M.Kemal & A.Koçak leg. - 1♂ 50: Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak leg. - 1♀ 65: Gevaş: Kızılağaç 3km S., 1980m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♂ 1♀ 65: Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 1♂ 1♀ 65: Gevaş: Yoldöndü, Kuzgunkıran E, 2230m. 25 06 2001, A.Koçak & M.Kemal leg. - 2♂ 65: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe*. - 1♂ 65: Gevaş: Malumkişiler geçidi, 2500m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe*. - 3♂ 65: Gevaş: Malumkişiler geçidi, 2350m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe*. - 65: Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak obs. - 1♂ 65: Gevaş: Göründü N., 1680m, 28 05 2009, A.Koçak & M.Kemal leg. - 1♂ 1♀ 65: Gevaş: Göründü N., 1680m, 06 06 2009, A.Koçak & M.Kemal leg. - 1♂ 65: Gürpınar: Zerneke barajı, 2000m. 31 07 2001, A.Koçak leg. - 2♂ 65: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Gürpınar: Kırkeçit S., 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 3♂ 1♀ 65: Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 2♂ 2♀ 65: Van: Zeve, Kampüs, 1700m. 10 04 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Van: Zeve, Kampüs, 1700m. 17 04 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Van: North of Kampüs, Güllü, 1820m. 28 04 2001, M.Kemal & A.Koçak leg. - 65: Van: North of Kampüs, Tevekli, 1800m. 28 04 2001, M.Kemal & A.Koçak obs. - 1♂ 65: Van: Kurubaş geçidi, 2100m. 29 04 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Van: Zeve, Kampüs, 1700m. 21 05 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Van: Zeve, Kampüs, 1700m. 04 06 2001, M.Kemal leg. - 1♂ 1♀ 65: Van: Zeve, Kampüs, 1700m. 18 06 2001, M.Kemal leg. - 1♀ 65: Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal leg. - 2♂ 65: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community*. - 1♂ 65: Van: Erek Dağı, Kurubaş 7km E, 2100m. 08 06 2002, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Onağıl kavşağı, 2000m. 01 04 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Aşağı Narlıca, 2150m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Onağıl kavşağı, 2060m. 19 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♀ 65: Çatak: Onağıl kavşağı, 2060m. 24 05 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Narlı: Övecek, 1400m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Aşağı Narlıca, 2150m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Amata vadisi, 1550m. 09 06 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Saklıvadi, 2050m. 15 06 2002, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Gölgepınar, 1400m. 19 06 2002, M.Kemal & A.Koçak leg.

Zegris eupheme menestho 1♂ 06: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Karyağdı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 1♂ 65: Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 1♂ 65: Van: Kurubaş geçidi N, 2100m. 10 06 2003, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♀ 65: Çatak: Narlı, Dalbastı, 1750m. 25 05 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Çatak 10km S., 1510m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Çatak 5km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 3♂ 65: Çatak: Çatak 6km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Çatak 3km S., 1540m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Çatak 7km S., 1530m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Aşağı Narlıca, 2150m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Amata vadisi, 1350m. 10 06 2001, M.Kemal & A.Koçak leg. - 3♂ 65: Çatak: Saklıvadi, 2050m. 15 06 2002, M.Kemal & A.Koçak leg. - 65: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak obs.

Satyridae

Arethusana arethusana sultana 1♂ 06: Sincan: Ayaş Dağları E, 1150m. 07 07 2001, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 23 07 1998, A.Koçak & M.Kemal leg. - 5♂ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg.

Brintesia circe 1♂ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 13: Sarıkonak: Kasih, 1050m. 12 06 2002, M.Kemal & A.Koçak obs. - 2♂ 07: Kaş: Sütleglen, 03 09 1999, Selma & Ergin Çalışkan leg.

Chazara anthe hanıfa 1♂ 23: Baskil: Topalkem 4km, 0770m, 02 06 2007, M.Kemal & A.Koçak leg. - 1♀ 38: Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg. - 1♂ 2♀ 38: Pınarbaşı:

Pınarbaşı, 1500m, 18 07 2004, A.Koçak & M.Kemal leg. *Rocky, grassy slopes with deciduous Quercus forest remnants.* - 1♂ 44: Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♂ 50: Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ 58: Gürün: Mazıkıran Geçidi 3km SE, 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus-Globularia steppe with sporadic Daphne, Crataegus, Rosa, Celtis scrubs.* - 1♂ 58: Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa bushes.* - 1♂ 58: Gürün: Ziyaret Geçidi, 2000m, 17 07 2004, M.Kemal & A.Koçak leg. *Calcareous slopes with sporadic vegetation.* - 1♂ 58: Gürün: Ziyaret Geçidi, 2000m, 17 07 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 4♂ 1♀ 58: Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 1♂ 65: Van: Zeve, Kampüs, 1700m. 19 06 2001, M.Kemal leg. - 2♀ 65: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community. Butterfly feeds on Cirsium sp.*

Chazara bischoffi bischoffi 2♂ 1♀ 44: Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg. - 5♂♀ 65: Gürpınar: Zerne barajı, 2000m. 31 07 2001, A.Koçak leg. - 1♂ 65: Gürpınar: Gölardı, 2350m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community. Butterflies feed on Cirsium sp.* - 1♂ 1♀ 65: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 3♂ 65: Van: Kurubaş geçidi, 2100m. 18 07 2001, M.Kemal & A.Koçak leg. *Butterflies inhabits in tragacanthic mountain steppe.* - 1♂ 65: Çatak: Havarengler vadisi, 2000m. 08 08 2001, M.Kemal & A.Koçak leg. *Butterflies are rupicol in caves.*

Chazara briseis 06: Bala: Üçem köyü, 1200m, 18 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic steppe on hill slopes.* - 1♂ 1♀ 06: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 1♂ 06: Sincan: Ayaş Dağları E, 1150m. 07 07 2001, A.Koçak & M.Kemal leg. - 2♀ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 2♂ 06: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 2♂ 3♀ 06: Yenimahalle: Memlik, Kayalık, 1170m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 1♀ 12: Bingöl: Bingöl 13km E, 1350m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♂ 12: Solhan: Yenidal köyü, 1320m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 13: Sarıkonak: Kasih, 1050m. 12 06 2002, M.Kemal & A.Koçak leg. - 13: Tatvan: Nemrut Krateri, Büyükgöl, 2260m, 09 06 2007, H.Özkol, L.Kayci obs. - 1♂ 23: Başyurt: Başyurt, 1050m. 25 06 2001, A.Koçak & M.Kemal leg. - 2♂ 38: Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg. - 2♂ 38: Pınarbaşı: Pınarbaşı, 1500m, 18 07 2004, A.Koçak & M.Kemal leg. *Rocky, grassy slopes with deciduous Quercus forest remnants.* - 1♂ 44: Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♀ 44: Malatya: Kürecik, Karahan geçidi, 1900m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♀ 44: Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg. - 2♀ 58: Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa bushes.* - 2♀ 58: Gürün: Mazıkıran Geçidi 3km SE, 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus-Globularia steppe with sporadic Daphne, Crataegus, Rosa, Celtis scrubs.* - 58: Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 3♂♀ 65: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Gürpınar: Yukarı Acısı, 2070m, 13 08 2006, M.Kemal & A.Koçak leg. - (video record) 65: Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♂ 65: Gürpınar: Kırkgeçit S., 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Başkale: Albayrak: Bilgeç-Özpınar, 2200m. 01 08 2002, A.Koçak, L.Kayci & H.Özkol leg. - 1♂ 65: Van: Zeve, Kampüs, 1700m. 18 06 2001, M.Kemal leg. - 1♀ 65: Van: Zeve, Kampüs, 1700m. 19 06 2001, M.Kemal leg. - 3♂ 65: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community. Butterfly feeds on Cirsium sp.* - 1♀ 65: Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Havarengler vadisi, 2000m. 08 08 2001, M.Kemal & A.Koçak leg. - 71: Kırıkkale: Karakeçili 12km E, 1000m, 18 07 2004, M.Kemal & A.Koçak leg. *Grass steppe with dominant species Scabiosa argentea.*

Coenonympha leander 4♂ 06: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg.

Coenonympha pamphilus 06: Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - 40♂♀ 06: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 3♂♀ 06: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 3♂ 06: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂

06: Keçiören: Bağlum, 1300m 02 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06:** Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 6♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 04 05 2000, A.Koçak & M.Kemal leg. - 7♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - 5♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - 5♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 2♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 2♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1150m. 16 06 2000, A.Koçak & M.Kemal leg. - 1♂ 2♀ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 6♂ **06:** Yenimahalle: Karyağı Dağı, Lezgi, 1100m 01 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06:** Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06:** Yenimahalle: Karyağı Dağı, Lezgi, 1200m. 19 05 1999, A.Koçak & M.Kemal leg. - 2♂♀ **06:** Yenimahalle: Karyağı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 6♂♀ **06:** Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 2♂ 2♀ **12:** Bingöl: Bingöl 13km E, 1350m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♂ **13:** Bitlis: Baykan 37km NW, 1350m, 04 06 2006, M.Kemal & A.Koçak leg. - 1♂ **13:** Tatvan: Tatvan 45km E, 1870m. 25 06 2001, A.Koçak & M.Kemal leg. - 3♂ **13:** Tatvan: Reşadiye 5km W, 1750m. 11 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland margins.* - 1♂ **13:** Tatvan: Reşadiye 2km W, 1700m, 26 05 2007, M.Kemal & A.Koçak leg. - 1♂ **44:** Akçadağ: Sultansuyu Çiftliği, 0870m, 27 05 2007, M.Kemal leg. - 1♂ **46:** Göksun: Tekir N., Kurucaova, 1350m, 06 06 2006, M.Kemal & A.Koçak leg. - 1♂ **46:** Göksun: B.Çamurlu- Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak leg. - 3♂ **46:** Göksun: Kanlıkavak E, 1420m, 01 06 2007, M.Kemal & A.Koçak leg. - 9♂ **47:** Nusaybin: Beyazsu N., 0700m, 03 04 2005, M.Kemal leg. - 2♂ **49:** Muş: Buğlan geçidi, 1600m, 16 07 2004, M.Kemal & A.Koçak leg. - 2♂ **49:** Muş: Buğlan geçidi, 1695m, 16 07 2004, M.Kemal & A.Koçak leg. *Openings of the remnant Quercus forest.* - 1♂ **65:** Gevaş: İnköy 4km E., 1860m. 02 06 2001, M.Kemal leg. - **65:** Gevaş: Kuzgunkıran geçidi, 2250m. 29 05 2003, M.Kemal & A.Koçak obs. - 2♂ 1♀ **65:** Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ **65:** Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak leg. - 3♂ **65:** Gürpınar: Kırkgeçit S., 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ **65:** Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 3♂ **65:** Van: Zeve, Kampüs, 1700m. 21 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Van: Zeve, Kampüs, 1700m. 25 05 2001, M.Kemal leg. - 1♀ **65:** Van: Zeve, Kampüs, 1700m. 05 06 2001, M.Kemal leg. - 1♀ **65:** Van: Erek Dağı, Kurubaş 7km E, 2100m. 08 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - **65:** Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak obs. - 1♂ **65:** Çatak: Onağıl kavşağı, 2060m. 24 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Çatak 6km S., 1540m. 24 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Narlı, Dalbastı, 1750m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 10km S., 1510m. 25 05 2001, M.Kemal & A.Koçak leg. - 3♂ **65:** Çatak: Çatak 5km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Çatak 6km S., 1540m. 25 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Narlı: Övecek, 1400m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Onağıl kavşağı, 2060m. 27 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Gölgepınar, 1500m. 15 06 2002, M.Kemal & A.Koçak leg. - **65:** Çatak: Dalbastı 3km S, 1300m. 17 05 2003, A.Koçak & M.Kemal obs. *Hilly place covered by mixed forest (Quercus, Crataegus, Prunus, Acer, Celtis), with malacophyllous plants and grasses.* - **65:** Çatak: Amata vadisi, 1650m 02 06 2003, M.Kemal & A.Koçak obs. 2♂ - **65:** Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak leg. - 5♂ **71:** Kırıkkale: Karakeçili 12km E, 1000m, 18 07 2004, M.Kemal & A.Koçak leg. *Grass steppe with dominant species Scabiosa argentea.*

Coenonympha saadi iphias 1♂ **13:** Tatvan: Reşadiye 5km W, 1700m 26 06 2004, M.Kemal & A.Koçak leg. - 1♂ **13:** Sarıkonak: Bitlis 20-23km SW, 1200m. 12 06 2002, M.Kemal & A.Koçak leg. - 2♂ **13:** Tatvan: Tatvan 30km E, 1800m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ **13:** Tatvan: Tatvan 45km E, 1870m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ **44:** Darend: Darend W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♀ **44:** Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg. - 10♂ **65:** Çatak: Amata vadisi, 1550m. 09 06 2001, M.Kemal & A.Koçak leg. - 3♂ **65:** Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Amata vadisi, 1600m. 15 06 2002, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Amata vadisi, 1600m. 19 06 2002, M.Kemal & A.Koçak leg. - 1♂ 1♀ **65:** Çatak: Atlıhan, 1200m. 19 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Büyükağaç, 1400m. 19 06 2002, M.Kemal & A.Koçak leg. *Species inhabit in the openings of Quercus-Paliurus woodlands.* - 4♂♀ **65:** Çatak: Gölgepınar, 1400m. 19 06 2002, M.Kemal & A.Koçak leg.

Esperarge clymene 5♂ **12:** Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 2♂ **13:** Tatvan: Kuzgunkıran geçidi, 2170m, 16 07

2004, M.Kemal & A.Koçak leg. - 2♂ 13: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic degraded mountain steppe*. - 1♂ 44: Malatya: Kürecik, Karahan geçidi, 1900m. 09 07 2001, A.Koçak & M.Kemal leg. - 16♂♀ 49: Buğlan geçidi E, 1370m. 21 06 2002, M.Kemal & A.Koçak leg. - 1♂ 65: Gevaş: Yoldöndü, Kuzgunkıran E, 2230m. 25 06 2001, A.Koçak & M.Kemal leg. - 7♂ 65: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe*. - 65: Gürpınar: Gölardı, 2350m. 10 08 2001, M.Kemal & A.Koçak obs. *Species inhabits on Juncus, Carex, Mentha, Cirsium community. Butterflies feed on Cirsium sp.* - 3♀ 65: Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Amata vadisi, 1600m. 19 06 2002, M.Kemal & A.Koçak leg. - 65: Çatak: Büyükağaç, 1400m. 19 06 2002, M.Kemal & A.Koçak obs. *Species inhabit in the openings of Quercus-Paliurus woodlands*.

Hyponephele cadusia 1♂ 65: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♀ 65: Gürpınar: Kırkgeçit S., 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 3♀ 65: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community*.

Hyponephele lupinus 1♂ 1♀ 06: Bala: Üçem köyü, 1200m, 18 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic steppe on hill slopes*. - 1♂ 06: Sincan: Ayaş Dağları E, 1150m. 07 07 2001, A.Koçak & M.Kemal leg. - 16♂ 12: Bingöl: Bingöl 8km W, 1350m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland and butterfly feeds on Thymus*. - 7♂ 12: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings*. - 2♂ 4♀ 12: Bingöl: Bingöl 13km E, 1350m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♂ 13: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. *Degraded tragacanthic steppe with Senecio, Solidago, Scabiosa etc.* - 1♂ 13: Tatvan: Güroymak 10km E, 1650m. 30 06 2002, M.Kemal & A.Koçak leg. - 1♂ 13: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic degraded mountain steppe*. - 1♀ 23: Başyurt: Başyurt, 1050m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 1♀ 38: Pınarbaşı: Pınarbaşı, 1500m, 18 07 2004, A.Koçak & M.Kemal leg. *Rocky, grassy slopes with deciduous Quercus forest remnants*. - 1♂ 1♀ 44: Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♂ 49: Buğlan geçidi E, 1370m. 21 06 2002, M.Kemal & A.Koçak leg. - 1♂ 49: Buğlan geçidi E, 1650m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus-Vicia community*. - 1♂ 58: Gürün: Mazıkıran Geçidi 3km SE, 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus-Globularia steppe with sporadic Daphne, Crataegus, Rosa, Celtis scrubs*. - 5♂ 1♀ 65: Gevaş: Kızıltaş N, 1750m. 28 07 2002, A.Koçak leg. *Butterfly sits among Glycyrrhiza plants*. - 1♂ 65: Van: Zeve, Kampüs, 1700m. 18 06 2001, M.Kemal leg. - 1♂ 1♀ 65: Van: Zeve, Kampüs, 1700m. 18 06 2001, M.Kemal leg. - 1♀ 65: Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal leg. - 3♂ 65: Van: Kurubaş geçidi, 2100m. 18 07 2001, M.Kemal & A.Koçak leg. *Butterflies inhabits in tragacanthic mountain steppe*. - 1♂ 65: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community*. - 1♂ 65: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♂ 65: Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♂ 1♀ 65: Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ 65: Gürpınar: Kırkgeçit S., 2230m, 13 08 2006, M.Kemal & A.Koçak leg.

Hyponephele lycaon complex 3♂ 06: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♀ 06: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 2♂ 38: Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg. - 1♂ 38: Pınarbaşı: Pınarbaşı, 1500m, 18 07 2004, A.Koçak & M.Kemal leg. *Rocky, grassy slopes with deciduous Quercus forest remnants*. - 1♂ 2♀ 58: Gürün: Mazıkıran Geçidi 3km SE, 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus-Globularia steppe with sporadic Daphne, Crataegus, Rosa, Celtis scrubs*. - 5♂♀ 58: Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Tragacanthic mountain steppe*. - 4♂♀ 58: Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa bushes*. - 1♂ 5♀ 58: Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe*. - 3♂ 65: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe*. - 10♂ 65: Gevaş: Malumkişiler geçidi, 2350m. 02 08 2002, A.Koçak, H.Özkoç & L.Kayci leg *Species inhabit in tragacanthic mountain steppe*.

Hyponephele naricoides 2♂ 58: Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa*

bushes. - 8♂♀ **65**: Başkale: Albayrak: Bilgeç-Özpınar, 2200m. 01 08 2002, A.Koçak, L.Kayci & H.Özkol leg. - 2♂ **65**: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community.*

Hyponephele wagneri 1♂ **44**: Darende: Darende city, 1050m, 17 06 2006, M.Kemal leg. - 1♀ **44**: Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg.

Hyponephele zuvandica 1♂ **65**: Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg.

Kirinia (Melike) roxelana 7♂ 1♀ **13**: Sarıkonak: Kasih, 1050m. 12 06 2002, M.Kemal & A.Koçak leg. - 4♂ **13**: Sarıkonak: Bitlis 20-23km SW, 1200m. 12 06 2002, M.Kemal & A.Koçak leg. - 2♂ **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg.

Lasiommata maera **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak obs. - 1♂ **48**: Bodrum: Yahşi civarı, 0100m, 15 06 2005, A.Koçak leg. - **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 1♂ **65**: Çatak: Amata vadisi, 1550m. 09 06 2001, M.Kemal & A.Koçak leg. - 4♂ **65**: Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg.

Lasiommata megaera 2♂♀ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 1♀ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 1♂ **12**: Bingöl: Bingöl 13km E, 1350m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♀ **13**: Tatvan: Nemrut Krateri dış yamaçlar, 2310m, 09 06 2007, H.Özkol, L.Kayci, M.Kemal, A.Koçak leg. - **13**: Tatvan: Nemrut Krateri, 2430m, 09 06 2007, A.Koçak obs. - 1♀ **13**: Tatvan: Nemrut Krateri, 2400m, 09 06 2007, M.Kemal, A.Koçak leg. - 4♀ **13**: Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ **47**: Nusaybin: Marine, 0700m, 02 04 2005, M.Kemal leg. 2♀ **47**: Nusaybin: Beyazsu N., 0700m, 03 04 2005, M.Kemal leg. - 2♀ **48**: Bodrum: Akyarlar, 0005m, 14 06 2005, M.Kemal leg. - 2♂ **48**: Bodrum: Yahşi civarı, 0100m, 15 06 2005, M.Kemal & A.Koçak leg. - 1♀ **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 1♀ **65**: Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg.

Maniola halicarnassos 2♂ **48**: Bodrum: Akyarlar, 0005m, 14 06 2005, M.Kemal leg. - 4♂ **48**: Bodrum: Akyarlar, 0050m, 15 06 2005, M.Kemal & A.Koçak leg. - 5♂ 2♀ **48**: Bodrum: Yahşi civarı, 0100m, 15 06 2005, M.Kemal & A.Koçak leg. 5♂ **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg.

Maniola jurtina 10♂ 2♀ **06**: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 2♂ **13**: Tatvan: Tatvan 57km E, 1920m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg. - 2♂ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 1♂ **06**: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 2♂ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♀ **06**: Yenimahalle: Memlik, Kayalık, 1170m 23 07 1998, A.Koçak & M.Kemal leg. - 1♀ **23**: Başyurt: Başyurt, 1050m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ **40**: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ **44**: Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 1♂ **49**: Buğlan geçidi E, 1370m. 21 06 2002, M.Kemal & A.Koçak leg. - 2♀ **65**: Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♀ **65**: Gürpınar: Yukarı Acısı, 2070m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♀ **65**: Gürpınar: Kırkgeçit S., 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♀ **65**: Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community.* - 1♂ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Gevaş: Kızıltaş N, 1750m. 28 07 2002, A.Koçak leg. *Butterfly sits among Glychyrhiza plants.* - 1♀ **71**: Kırıkkale: Karakeçili 12km E, 1000m, 18 07 2004, M.Kemal & A.Koçak leg. *Grass steppe with dominant species Scabiosa argentea.*

Maniola telmessia 1♀ **12**: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 4♂ **13**: Bitlis: Bitlis 10km SW, 1400m. 12 06 2002, M.Kemal & A.Koçak leg. - 1♂ **13**: Sarıkonak: Bitlis 20-23km SW, 1200m. 12 06 2002, M.Kemal & A.Koçak leg. - 1♂ 2♀ **13**: Sarıkonak: Kasih, 1050m. 12 06 2002, M.Kemal & A.Koçak leg. - 1♂ 3♀ **48**: Bodrum: Farilya Atçiftliği, 0100m, 17 06 2005, M.Kemal leg. - 2♂ **65**: Çatak: Narlı: Övecek, 1400m. 26 05 2001, M.Kemal & A.Koçak leg. - 7♂ 1♀ **65**: Çatak: Amata vadisi, 1550m. 09 06 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Çatak: Gölgepınar,

1500m. 13 06 2002, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Şehzade Pınarı, 1400m. 15 06 2002, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Büyükağaç, 1400m. 19 06 2002, M.Kemal & A.Koçak leg. *Species inhabit in the openings of Quercus-Paliurus woodlands.* - 5♂♀ 65: Çatak: Gölgepınar, 1400m. 19 06 2002, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Dalbastı 3km S, 1300m. 30 05 2003, M.Kemal & A.Koçak leg. *Butterflies feed on Tournefortia sp.*

Melanargia grumi 1♂ 1♀ 13: Sarıkonak: Kasih, 1050m. 12 06 2002, M.Kemal & A.Koçak leg. *Butterfly feeds on Onopordum sp.* - 3♂ 13: Sarıkonak: Bitlis 20-23km SW, 1200m. 12 06 2002, M.Kemal & A.Koçak leg.

Melanargia hylata hylata 4♂ 1♀ 65: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkol & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* - 5♂♀ 65: Gevaş: Malumkişiler geçidi, 2350m. 02 08 2002, A.Koçak, H.Özkol & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.* 65: Gürpınar: Gölardı, 2350m. 10 08 2001, M.Kemal & A.Koçak obs. *Species inhabits on Juncus, Carex, Mentha, Cirsium community. Butterflies feed on Cirsium sp.* - 3♂ 65: Van: Kurubaş geçidi, 2100m. 18 07 2001, M.Kemal & A.Koçak leg. *Butterflies inhabits in tragacanthic mountain steppe.* - **Melanargia hylata masageta** 12♂ 2♀ 38: Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg. - 2♂ 1♀ 38: Pınarbaşı: Pınarbaşı, 1500m, 18 07 2004, A.Koçak & M.Kemal leg. *Rocky, grassy slopes with deciduous Quercus forest remnants.* - 4♂ 3♀ 44: Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 3♂ 1♀ 58: Gürün: Mazıkıran Geçidi 3km SE, 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus-Globularia steppe with sporadic Daphne, Crataegus, Rosa, Celtis scrubs.* - 1♂ 1♀ 58: Gürün: Mazıkıran Geçidi, 1700m. 26 06 2001, A.Koçak & M.Kemal leg. - 4♂♀ 58: Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa bushes.* - 5♂ 2♀ 58: Gürün: Ziyaret Geçidi, 2000m, 17 07 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 5♂♀ 58: Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.*

Melanargia larissa noacki 5♂ 1♀ 06: Ayaş: Akyatak, 1250m. 07 07 2001, A.Koçak & M.Kemal leg. - 1♂ 06: Bala: Üçem köyü, 1200m, 18 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic steppe on hill slopes.* - 1♂ 06: Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg. - 1♀ 06: Sincan: Ayaş Dağları E, 1150m. 07 07 2001, A.Koçak & M.Kemal leg. - 1♂ 06: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 5♂♀ 06: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 2♂ 06: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg. - 1♀ 06: Yenimahalle: Memlik, 1300m 18 07 1998, A.Koçak & M.Kemal leg. - 38: Pınarbaşı: Pınarbaşı 5km W, 1580m, 16 06 2006, M.Kemal obs. - 1♂ 40: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ 44: Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♂ 50: Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak leg.

Melanargia russiae 1♂ 1♀ 65: Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkol & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.*

Melanargia syriaca karabagi 2♂ 2♀ 13: Tatvan: Tatvan 30km E, 1800m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 13: Tatvan: Tatvan 57km E, 1920m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ 65: Çatak: Amata vadisi, 1550m. 09 06 2001, M.Kemal & A.Koçak leg. - **Melanargia syriaca kocaki** 9♂♀ 12: Bingöl: Bingöl 8km W, 1350m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland and butterfly feeds on Thymus.* - 3♂ 12: Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 13♂ 1♀ 49: Muş: Buğlan geçidi, 1600m, 16 07 2004, M.Kemal & A.Koçak leg. *Quercus petraea, Vicia, Scabiosa community* - 13♂ 1♀ 49: Muş: Buğlan geçidi, 1695m, 16 07 2004, M.Kemal & A.Koçak leg. *Openings of the remnant Quercus forest. Butterflies suck nectar from Scabiosa and Knautia.* - 8♂♀ 49: Buğlan geçidi E, 1650m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus-Vicia community.* - **Melanargia syriaca yucelaskin** 1♀ 13: Tatvan: Güroymak 6km E, 1700m. 04 07 2002, M.Kemal & A.Koçak leg. - 5♂ 3♀ 13: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. - 5♂ 3♀ 13: Tatvan: Kuzgunkıran geçidi, 2170m, 16 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic degraded mountain steppe* - 2♂ 1♀ 65: Gevaş: Yoldöndü, Kuzgunkıran E, 2230m. 25 06 2001, A.Koçak & M.Kemal leg.

Melanargia titea wiskotti 30♂♀ 33: Tarsus: Tarsus 40km N, 0600m, 12 06 2005, A.Koçak & M.Kemal leg.

Neohipparchia fatua 1♂ 10♂ **07:** Kaş: Sütleğen, 03 09 1999, Selma & Ergin Çalışkan leg.- **48:** Bodrum: Akyarlar, 0050m, 15 06 2005, A.Koçak leg. - **Neohipparchia fatua persiscana** 1♂ **65:** Çatak: Şehzade Pınarı, 1350m. 13 07 2001, M.Kemal & A.Koçak leg.

Neohipparchia statilinus 3♂ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - **Neohipparchia statilinus minuscula** (in obs.). **06:** Sincan: Mülk, Ayaş Mts. E., 1150m 06 08 2000, A.Koçak & M.Kemal

Parahipparchia algerica senthes 2♀ **06:** Ayaş: Akyatak, 1250m. 07 07 2001, A.Koçak & M.Kemal leg. - **06:** Ayaş: Ayaş Dağları, Mülk, 1060m, 30 05 2007, M.Kemal obs. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg.

Pararge aegeria 1♂ **30:** Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg.

Proterebia afra 3♂ 1♀ **13:** Tatvan: Nemrut Krateri dış yamaçlar, 2310m, 09 06 2007, M.Kemal, A.Koçak leg. - 10♂♀ **13:** Tatvan: Nemrut Krateri, 2430m, 09 06 2007, M.Kemal, A.Koçak leg. - 21♂♀ **13:** Tatvan: Nemrut Krateri, 2400m, 09 06 2007, M.Kemal, A.Koçak leg. - 1♂ **13:** Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, M.Kemal, A.Koçak leg. - 3♂♀ **40:** Mucur: Mucur 3km NW, 1170m, 28 04 2007, M.Kemal & A.Koçak leg. *grass steppe on hilly area.* - 1♂ **44:** Darende: Darende 40km SE, 1800m, 27 05 2007, M.Kemal leg. - **65:** Gürpınar: Çatak dibî, Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak obs.

Pseudochazara anthelea 5♂ 1♀ **06:** Bala: Üçem köyü, 1200m, 18 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic steppe on hill slopes.* - 4♂ **23:** Baskil: Topalkem 4km, 0770m, 02 06 2007, M.Kemal & A.Koçak leg. - 1♂ 1♀ **38:** Pınarbaşı: Pınarbaşı, 1500m, 18 07 2004, A.Koçak & M.Kemal leg. *Rocky, grassy slopes with deciduous Quercus forest remnants.* - 7♂ 5♀ **38:** Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg. - 2♂ 1♀ **44:** Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg. - 3♂ **50:** Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 17 07 2004, M.Kemal & A.Koçak leg. *Calcareous slopes with sporadic vegetation.* - 1♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 17 07 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 1♂ **58:** Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa bushes.* - 1♂ **58:** Gürün: Mazıkıran Geçidi 3km SE, 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus-Globularia steppe with sporadic Daphne, Crataegus, Rosa, Celtis scrubs.* - **Pseudochazara anthelea selcuki** 2♂ **13:** Sarıkönak: Kasih, 1050m. 12 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Gölgepınar, 1500m. 13 06 2002, M.Kemal & A.Koçak leg.

Pseudochazara beroe 6♂ 6♀ **58:** Gürün: Ziyaret Geçidi, 2000m, 17 07 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 1♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 1♂ 1♀ **65:** Gevaş: Malumkişiler geçidi, 2700m. 02 08 2002, A.Koçak, H.Özkol & L.Kayci leg *Species inhabit in tragacanthic mountain steppe.*

Pseudochazara geyeri 1♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Tragacanthic mountain steppe.* - 1♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - **65:** Gürpınar: Gölardı, 2350m. 10 08 2001, M.Kemal & A.Koçak obs. *Species inhabits on Juncus, Carex, Mentha, Cirsium community. Butterflies feed on Cirsium sp.* - 3♂ **65:** Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 2♂ 2♀ **65:** Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community.*

Pseudochazara lydia aurora: 5♂ **07:** Kaş: Sütleğen, 03 09 1999, Selma & Ergin Çalışkan leg.

Pseudochazara mamurra birgit 2♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.*

Pseudochazara mnischezii 2♂ 1♀ **06:** Bala: Üçem köyü, 1200m, 18 07 2004, M.Kemal & A.Koçak leg. *Tragacanthic steppe on hill slopes.* - 3♂ 1♀ **06:** Sincan: Ayaş Dağları E, 1150m. 07 07 2001, A.Koçak & M.Kemal leg. - 1♀ **06:** Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ 1♀ **06:** Sincan: Mülk, Ayaş Mts. E., 1150m 06 08 2000, A.Koçak & M.Kemal leg. - 1♂ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1200m 15 08 1998, A.Koçak & M.Kemal leg. - 1♂ 1♀ **38:** Pınarbaşı: Pınarbaşı 2km W, 1580m. 26 06 2001, A.Koçak & M.Kemal leg.

Pseudochazara pelopea 3♂ **44:** Darende: Darende W, 1100m, 17 06 2006, M.Kemal & A.Koçak leg. - 2♀ **58:** Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa bushes.* - 3♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Tragacanthic mountain steppe.* - 1♂ **58:** Gürün: Ziyaret Geçidi, 2000m, 02 08 2004, M.Kemal & A.Koçak leg. *Calcareous hilltops with Sedum album, S.sempervivoides, Astragalus, Acantholimon, Thymus subalpine mountain steppe.* - 1♂ **12:** Yolçatı: Kuruca geçidi E (Yolçatı) 1700m. 30 06 2002, M.Kemal & A.Koçak leg. *Species inhabits in Quercus woodland openings.* - 1♂ 3♀ **44:** Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg. - 1♂ **65:** Başkale: Albayrak: Bilgeç-Özpınar, 2200m. 01 08 2002, A.Koçak, L.Kayci & H.Özkoç leg. - 3♂♀ **65:** Gürpınar: Zerne barajı, 2000m. 31 07 2001, A.Koçak leg. - 5♂♀ **65:** Gürpınar: Derindere, 2020m, 13 08 2006, M.Kemal & A.Koçak leg. - 1♂ **65:** Gürpınar: Yukarı Eğimli, 2230m, 13 08 2006, M.Kemal & A.Koçak leg. - **65:** Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak obs. - 1♀ **65:** Van: Zeve, Kampüs, 1700m. 19 06 2001, M.Kemal leg. - 1♂ **65:** Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal leg. - 4♂ **65:** Van: Kurubaş geçidi, 2100m. 18 07 2001, M.Kemal & A.Koçak leg. *Butterflies inhabits in tragacanthic mountain steppe.* - 4♂ 3♀ **65:** Van: Erek Dağı: Kokuludere, 2250m. 10 08 2001, M.Kemal & A.Koçak leg. *Species inhabits on Juncus, Carex, Mentha, Cirsium community. Butterfly feeds on Cirsium sp.* - 1♂ **65:** Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 5♂ **65:** Çatak: Havarengler vadisi, 2000m. 08 08 2001, M.Kemal & A.Koçak leg.

Pseudochazara telephassa 1♂ 6♀ **44:** Malatya: Karahan geçidi E, 1450m. 09 07 2001, A.Koçak & M.Kemal leg.

Satyrus amasinus 1♂ 1♀ **50:** Ürgüp: Avanos, Zelve 2km 1000m 07 06 2006, M.Kemal & A.Koçak leg.

Satyrus favonius 3♂ 3♀ **65:** Gürpınar: Yalınca Kaplıca, 2215m, 13 08 2006, M.Kemal & A.Koçak leg.

Satyrus sp. 12♂♀ **58:** Gürün: Gürün 10km NW [3km SE Mazıkıran geçidi], 1650m, 17 07 2004, M.Kemal & A.Koçak leg. *Astragalus spp. Globularia Steppe, with sporadic Daphne, Crataegus, Rosa bushes.*

Moths

Notodontidae

Cerura vinula irakana 2♂ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Dicranura ulmi 2♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Harpyia milhauseri 2♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♂ **65:** Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Phalera bucephala 1♀ **13:** Tatvan: Güroymak 10km E, 1650m. 30 06 2002, M.Kemal & A.Koçak leg.

Spatalia argentea 1♂ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 9♂ **65:** Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Noctuidae

Acontia lucida 1♂ **40:** Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Gevaş/Çatak sınırı, 2000m. 24 05 2001, M.Kemal & A.Koçak leg. - 5♂ **65:** Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Acronicta orientalis 1♀ **06:** Yenimahalle: Karyağdı Dağı, Memlik, 1250m 24 04 1999, A.Koçak leg.

Acronycta euphorbiae 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - larvae **38:** Pınarbaşı: Pınarbaşı 5km W, 1580m, 16 06 2006, M.Kemal & A.Koçak leg. *larvae on Euphorbia macroclada.*

Acronycta megacephala 1♂ **47:** Nusaybin: Beyazsu, 0600m, 17 04 2007, M.Kemal & A.Koçak leg.

Acronycta tridens 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Actinotia hyperici 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♂ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Actinotia radiosa: 1♂ **06:** Çubuk: Aydos Dağı, 10 07 1999, Selma & Ergin Çalışkan leg.

Agrotis exclamationis 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 3♂ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Agrotis ipsilon 1♀ **06:** Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 1♂ 1♀ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Agrotis segetum 2♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg.

Aletia albipuncta 2♂ 2♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Aletia vitellina 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Antharchaea numisma 8♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Apamea leucodon 1♂ **65:** Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. *captured flying by day.* - 1♂ **65:** Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. *captured flying by day.* - **Apamea leucodon anatolica** 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Apautis rupicola **49:** Muş: Buğlan geçidi, 1695m, 26 06 2004, M.Kemal & A.Koçak obs.

Autographa circumflexa 1♂ **13:** Tatvan: Nemrut Krateri, Büyüköl, 2260m, 09 06 2007, H.Özkol, L.Kayci, M.Kemal, A.Koçak leg. - 1♂ **30:** Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal & M.Kemal leg. - 1♀ **47:** Midyat: Yemişli, 0960m 17 04 2007, M.Kemal & A.Koçak leg. - 4♂ **47:** Nusaybin, Nusaybin 0500m, 01 04 2005, I.Akdeniz leg. *adult feeds on nectar of Prunus cerasus by night.* - 3♂ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Autographa gamma 1♂ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 1♂ **06:** Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ **12:** Solhan: Yenidal köyü, 1320m. 25 06 2001, A.Koçak & M.Kemal leg. - 2♂ **13:** Tatvan: Nemrut Krateri, Ilıkgöl, 2280m, 09 06 2007, H.Özkol, L.Kayci, M.Kemal, A.Koçak leg. - 1♂ **23:** Başyurt: Başyurt, 1050m. 25 06 2001, A.Koçak & M.Kemal leg. - 1♂ **30:** Şemdinli: Şapatan geçidi S, 1900m. 19 05 2003, M.Kemal leg. - 1♂ **31:** Yayladağı: Yeditepe yolu çeşme, 0530m, 19 04 2007, M.Kemal & A.Koçak leg. - 1♂ **40:** Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♂ **47:** Nusaybin: Beyazsu, 0600m, 17 04 2007, M.Kemal & A.Koçak leg. - 1♂ **63:** Birecik: Birecik W., 0500m, 18 04 2007, M.Kemal & A.Koçak leg. - 1♀ **65:** Gevaş: Kızıltaş 3km S., 1980m. 24 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 3♂ **65:** Gürpınar: Çatakdibi,

Cunkderesi, 2345m. 06 06 2007, M.Kemal & A.Koçak leg. - 1♂ **65**: Van: Zeve, Kampüs, 1700m. 21 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Van: Zeve, Kampüs, 1700m. 30 04 2005, A.Koçak & M.Kemal leg. - 1♀ **65**: Çatak: Çatak 1km S., 1600m. 19 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 6km S., 1540m. 24 05 2001, M.Kemal & A.Koçak leg. - 2♂ **80**: Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M.Kemal leg.

Axylia sp. 56: Baykan: Üççeşme, 0700m, 17 04 2007, M.Kemal & A.Koçak leg.

Behounekia freyeri 3♂ 3♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♂ **12**: Bingöl: Yado çeşmesi, 1350m, 26 05 2007, M.Kemal & A.Koçak leg. - 3♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 8♂ **65**: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Catocala elocata 1♂ **06**: Yenimahalle: Etiler, 0850m. 15 08 1998, A.Koçak leg. - 1♂ **06**: Yenimahalle: Etiler, 0850m. 20 08 1998, S.Seven leg. - 1♂ **06**: Yenimahalle: Fen-Edebiyat Fak., 0850m. 20 08 1998, S.Seven leg. - 1♂ **06**: Çankaya: Tandoğan, 0850m. 15 08 1998, A.Koçak leg. - 3♂ **65**: Çatak: Havarengler vadisi, 2000m. 08 08 2001, M.Kemal & A.Koçak leg.

Charanyca trigrammica 6♂♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Chersotis fimbriola 3♂ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg.

Cleonymia opposita 1♀ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 2♂ **12**: Bingöl: Yado çeşmesi, 1350m, 26 05 2007, M.Kemal & A.Koçak leg. - 10♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 2♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Colobochyla (Caspicastra) platyzona capnoessa 8♂♀ **65**: Çatak: Çatak 3km NNE, 1500m, 09 06 2001, M.Kemal & A.Koçak leg.

Copiphana oliva 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Copiphana olivina 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Cosmia sp. 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg.

Dichagyris sp. 1♂ **49**: Solhan: Buğlan geçidi E, 1370m. 21 06 2002, M.Kemal & A.Koçak leg.

Diloba caeruleocephala 1 larva **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg.

Discestra mendica 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Discestra sp. 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Drasteria cailino 1♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Drasteria saisani 1♂ 2♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Drasteria sp. 1♂ **65**: Gürpınar: Çatakdibi, Cunkderesi, 2345m. 06 06 2007, M.Kemal leg.

Dysgonia algira 1♂ **65**: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Emmelia trabealis 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. *Butterflies sip nectar of Vicia cracca*. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000,

A.Koçak, M.Kemal & E.Demir leg. - 2♀ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 2♂ **65**: Çatak: Amata vadisi, Boravin, 1550m. 07 06 2003, M.Kemal & A.Koçak leg.

Eublemma gratissima 1♀ **65**: Çatak: Çatak 3km NNE, 1500m. 09 06 2001, A.Koçak & M.Kemal leg.

Eublemma ostrina 1♂ **13**: Tatvan: Nemrut Krateri, Büyüköl, 2260m, 09 06 2007, H.Özkol, L.Kayci, M.Kemal, A.Koçak leg. - 1♂ **47**: Nusaybin: Beyazsu N., 0700m, 03 04 2005, M.Kemal leg.

Euclidia glyphica 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. *Butterflies sip nectar of Vicia cracca*. - 1♂ **06**: Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Keçiören: Bağlum, 1300m 02 05 1999, A.Koçak & M.Kemal leg. - 1♀ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg. - 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - 1♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 3♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg. - 1♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 4♂♀ **06**: Yenimahalle: Lezgi, 1150-1200m 08 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Karyağdı Dağı, Lezgi, 1200m. 19 05 1999, A.Koçak & M.Kemal leg. - 3♂♀ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 4♂♀ **06**: Çubuk: Aydos Dağı, 1650-1800m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Çubuk: Aydos Dağı: Deremhisar, 1650m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Çubuk: Kuruçay, 1300m. 16 05 1999, A.Koçak & M.Kemal leg. - 3♂♀ **06**: Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♀ **30**: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal leg. - 1♂ **65**: Çatak: Çatak 3km S., 1540m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 3km S., 1540m. 26 05 2001, M.Kemal & A.Koçak leg. - 3♂♀ **65**: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Çatak: Amata vadisi, 1600m. 19 06 2002, M.Kemal & A.Koçak leg.

Euclidia mi 1♀ **06**: Kızılcahamam: Soğuksu, 1000-1300m 29 05 1999, M.Kemal & B.Koçak leg.

Euclidia triquetra 1♂ **06**: Ayaş: Ayaş Dağları, Mülk, 1210-1250m, 30 05 2007, M.Kemal & A.Koçak leg. *Butterflies sip nectar of Vicia cracca*. - 1♂ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1300m 01 05 1999, A.Koçak & M.Kemal leg.

Eutelia adoratrix 6♂♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 2♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Eutelia adulatrix 7♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Euxoa agricola 1♂ **65**: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Hadena luteago 1♂ 1♀ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 6♂♀ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Hadena magnolii 2♂ **12**: Bingöl: Yado çeşmesi, 1350m, 26 05 2007, M.Kemal & A.Koçak leg.

Hadena perplexa 2♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Helicoverpa armigera 2♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 2♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 3km S., 1540m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Çatak 3km S., 1540m. 26 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Karyağdı, Gültekçe, 2300m. 13 06 2001, M.Kemal & A.Koçak leg. *Species inhabits on Prangos, Ferula, Astragalus, Coronilla community.*

Heliothis peltigera 1♂ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 1♂ **49**: Solhan: Buğlan geçidi E, 1370m. 21 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65**: Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 1♂ **65**: Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 4♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Karyağdı, Gültekçe, 2300m. 13 06 2001, M.Kemal & A.Koçak leg. *Species inhabits on Prangos, Ferula, Astragalus, Coronilla community.* - 1♂ **65**: Çatak: Amata vadisi, 1600m. 15 06 2002, M.Kemal & A.Koçak leg.

Lygephila ludicra 2♂ 65: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Mamestra thalassina 1♂ 4♀ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Megalodes eximia 6♂♀ 65: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♀ 65: Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 1♀ 65: Çatak: Gölgepınar, 1500m. 15 06 2002, M.Kemal & A.Koçak leg.

Metalopha gloriosa 3♀ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Minucia lunaris 6♂ 65: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Mormonia neonympha 1♂ 65: Gevaş: Kızıltaş N, 1750m. 28 07 2002, A.Koçak leg. *Moth sits among Glychyrhiza plants.*

Mythimna l-album 4♂ 65: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 2♂ 65: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg. - 3♂ 65: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Mythimna vitellina 4♂ 65: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Noctua janthina 5♀ 06: Çankaya: Beşevler, 0850m 12 08 1998, A.Koçak leg.

Noctua orbona 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♀ 06: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg.

Noctua pronuba 8♂ 1♀ 65: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ 65: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Omphalaphana antirrhini 2♂ 65: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Oria musculosa 1♀ 65: Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal leg.

Ozarba moldavica 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg.

Pachetra sagittigera 5♀ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 1♂ 65: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg. -

Periphanes delphinii 1♂ 13: Tatvan: Tatvan 30km E, 1800m. 25 06 2001, A.Koçak & M.Kemal leg.

Periphanes victorina 1♂ 65: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Phytometra viridaria 1♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 07 05 2000, A.Koçak & M.Kemal leg. - 1♀ 06: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 1♂ 06: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg.

Recophora beata 13♂♀ 65: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Rhynchodontodes antiqualis 5♂ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg. - 3♂ 65: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg.

Rhypagla lacernaria 1♀ 06: Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Simyra dentinosa 2 larvae (in VC) 06: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven Obs. - larvae (4.instar) 38: Pınarbaşı: Pınarbaşı 5km W, 1580m, 16 06 2006, M.Kemal & A.Koçak leg. larvae on *Euphorbia macroclada*. - 1♂ 65: Van: Zeve, Kampüs, 1700m. 17 04 2001, M.Kemal &

A.Koçak leg. - 1♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Narlı Konalga, 1800m. 26 05 2001, M.Kemal & A.Koçak leg. - 10 larvae **65**: Çatak: Dalbastı 3km S, 1300m. 30 05 2003, M.Kemal & A.Koçak leg. *Larvae feed on Euphorbia sp.*

Spodoptera exigua 1♀ **65**: Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal leg. - 2♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Thalerastria diaphora 1♂ **06**: Yenimahalle: Lezgi, 1200m 12 07 1998, S.Seven leg. - 1♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Noct **Toxocampa sp.** 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg.

Trichoplusia ni 1♂ **47**: Nusaybin: Kalecik, 0600m, 03 04 2005, M.Kemal leg. - 1♂ **65**: Gevaş: Göründü-Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 1♂ **65**: Gevaş: Göründü- Altınsaç arası, 1730-1800m. 02 06 2001, M.Kemal leg. - 2♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Tyta luctuosa 1♂ **06**: Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 04 05 2000, A.Koçak & M.Kemal leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20 05 2000, M.Kemal & A.Koçak leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 1♂ **06**: Sincan: Mülk, Ayaş Dağları E., 1000m 09-10 06 2000, A.Koçak & M.Kemal leg. - 1♂ **06**: Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 1♂ **06**: Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - a male **30**: Şemdinli: Karaağaç, 1500m. 19 05 2003, M.Kemal obs. - 1♂ **31**: Yayladağı: Yayladağı, 0450m, 09 04 2005, M.Kemal leg.- **40**: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal obs. - 1♂ **65**: Van: Kurubaş, 1920m. 29 04 2001, M.Kemal & A.Koçak leg. *in wet mountain meadows where Muscari and Ranunculus communities occur.* - 1♂ **65**: Van: Kurubaş, 1920m. 29 04 2001, M.Kemal & A.Koçak leg. *in wet mountain meadows where Muscari and Ranunculus communities occur.* - 1♂ **65**: Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal & A.Koçak leg. - 1♂ **65**: Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal leg. - 1♂ **65**: Çatak: Amata vadisi, 1600m. 15 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65**: Çatak: Amata vadisi, 1600m. 19 06 2002, M.Kemal & A.Koçak leg. - **65**: Çatak: Dalbastı 3km S, 1300m. 17 05 2003, M.Kemal & A. Koçak obs. *Hilly place covered by mixed forest (Quercus, Crataegus, Prunus, Acer, Celtis), with malacophyllous plants and grasses.* - 1♂ **65**: Çatak: Dalbastı 3km S, 1300m. 30 05 2003, M.Kemal & A.Koçak leg. *Moth feeds on Cardaria draba.* - 2♂ **65**: Çatak: Kayaboğaz, Gültekçe, 2200m. 07 06 2003, M.Kemal leg.

Ulochlaena hirta 72♂ **30**: Yüksekova: Dilimli, 1950m. 18 10 2001, M.Kemal & H.Özkol leg.

Valerietta boursini 1♂ **65**: Çatak: Çatak 3km NNE, 1500m. 09 06 2001, A.Koçak & M.Kemal leg.

Yigoga flavina 1♂ **40**: Kaman: Kırşehir-Kaman kavşağı, 1190m, 07 06 2006, M.Kemal & A.Koçak leg. - 1♀ **65**: Van: Zeve, Kampüs, 1700m. 05 06 2001, M.Kemal leg. - 2♂ **65**: Van: Zeve, Kampüs, 1700m. 22 06 2001, M.Kemal leg.

Zethes insularis 4♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg. - 1♀ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Saturniidae

Perisomena caecigena 1 larva (in VC) **06**: Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg.

Saturnia pyri 1♂ **65**: Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Sesiidae

Bembecia scopigera 1♀ **06**: Yenimahalle: Memlik, 1200m 18 07 1998, A.Koçak & M.Kemal leg.

Tinthia hoplisiformis 1♀ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg.

Sphingidae

Agrius convolvuli 1♀ **44:** Malatya: Kale, 1000m. 15 09 2002, A.Koçak & M.Kemal leg.

Deilephila suellus 3♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak,M.Kemal & E.Demir leg.

Hemaris croatica 1♀ **06:** Yenimahalle: Memlik, Astragalo-Brometea stebi, 1300m 12 07 1998, S.Seven leg. - 2♂ **06:** Çankaya: Oran fidanlığı 1100m 02 07 1998, A.Koçak leg. - 1♂ **65:** Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg. - 2♂ **65:** Çatak: Gölgepınar, 1400m. 19 06 2002, M.Kemal & A.Koçak leg.

Hemaris fuciformis 1♂ **65:** Çatak: Amata vadisi, 1750m. 10 06 2001, M.Kemal & A.Koçak leg.

Hyles euphorbiae 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak,M.Kemal & E.Demir leg.

Hyles hippophaes 1♂ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Laothoe populi 1♂ **65:** Çatak: Çatak 3km NNE, 1500m. 23 05 2001, M.Kemal & A.Koçak leg.

Macroglossum stellatarum 1♂ **06:** Sincan: Yenikent, 0750m. 16 04 2000, M.Kemal & E.Demir leg. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1150m. 16 6 2000, A.Koçak & M.Kemal leg. - 1♂ **06:** Yenimahalle: Memlik, Pinetum-Astragalo Brometea comm. 1400m 23 07 1998, A.Koçak & M.Kemal leg. - 1♂ **06:** Çubuk: Aydos Dağı, 1650-1800m. 16 05 1999, A.Koçak & M.Kemal leg. - 1♂ **13:** Tatvan: Nemrut Krateri, Büyüköl, 2260m, 09 06 2007, H.Özkoç leg. - **46:** Göksun: Kanlıkavak E, 1420m, 01 06 2007, M.Kemal & A.Koçak obs. - 1♂ **65:** Van: Zeve, Kampüs, 1700m. 21 05 2001, M.Kemal & A.Koçak leg. - 1♂ **65:** Van: Zeve, Kampüs, 1700m. 25 05 2001, M.Kemal leg. - 1♂ **65:** Van: Erek Dağı, Kurubaş 7km E, 2100m. 08 06 2002, M.Kemal & A.Koçak leg. - 1♂ **65:** Çatak: Havarengler vadisi, 2000m. 08 08 2001, M.Kemal & A.Koçak leg. - 1♂ **80:** Osmaniye: Arslantaş, Castabala (Hieropolis), 0250m, 08 04 2005, M.Kemal leg. -

Marumba quercus 1♂ **44:** Akçaağaç X Develi Develi, 1500m 27 06 2004, M.Kemal & A.Koçak leg.

Rethera komaroffi 28♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak,M.Kemal & E.Demir leg. - 28♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 22 05 2000, M.Kemal,A.Koçak & E.Demir leg.

Thyatiridae

Tethea ocularis 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak,M.Kemal & E.Demir leg.

Tineidae

Hapsifera luridella 1♂ **33:** Tarsus: Tarsus 40km N, 0600m, 12 06 2005, A.Koçak & M.Kemal leg.

Rhodobates laevigatellus 2♂ **06:** Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06:** Ayaş: Akyatak, 1200m. 15 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06:** Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 04 05 2000, A.Koçak & M.Kemal leg. - 1♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 07 05 2000, A.Koçak & M.Kemal leg. - 6♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 11 05 2000, S.Seven & M.Kemal leg. - 2♂ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 20-21 05 2000, M.Kemal & A.Koçak leg. - 1♂ **06:** Yenimahalle: Karyağdı Dağı, Memlik, 1200m. 22 05 1999, A.Koçak & M.Kemal leg. - 2♂ **06:** Çubuk: Muhabbetçayırı, 1420m. 16 05 1999, A.Koçak & M.Kemal leg. - 2♂ **38:** Develi: Gezbeli W, 1910m, 31 05 2007, M.Kemal & A.Koçak leg. - 1♂ 1♀ **38:** Melikgazi: Erciyes, Hisarcık, 1820m, 31 05 2007, M.Kemal & A.Koçak leg. - **46:** Göksun: B.Çamurlu-Yoğunluk kavşağı, 1570m, 01 06 2007, M.Kemal & A.Koçak obs. - 1♂ **58:** Gürün: Mazıkıran geçidi, 1800m, 27 05 2007, M.Kemal leg.

Tortricidae

Hysterosia duponchelana 1♀ **06:** Ayaş: Atderesi, 1100m. 15 05 1999, A.Koçak & M.Kemal leg.

Phtheochroa duponchelana 8♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m 22 05 2000, A.Koçak, M.Kemal & E.Demir leg.

Tortrix viridana 3♂♀ **06:** Sincan: Mülk, Ayaş Dağları E., 1000m. 03 06 2000, M.Kemal & S.Seven leg.

Yponomeutidae

Plutella maculipennis 1♂ **65:** Van: Zeve, Kampüs, 1700m. 14 04 2001, M.Kemal & A.Koçak leg.

Appendix

Provinces of Turkey (studied 26 provinces are in bold)

01 Adana	18 Çankırı	35 İzmir	52 Ordu	69 Bayburt
02 Adıyaman	19 Çorum	36 Kars	53 Rize	70 Karaman
03 Afyonkarahisar	20 Denizli	37 Kastamonu	54 Sakarya	71 Kırıkkale
04 Ağrı	21 Diyarbakır	38 Kayseri	55 Samsun	72 Batman
05 Amasya	22 Edirne	39 Kırklareli	56 Siirt	73 Şırnak
06 Ankara	23 Elazığ	40 Kırşehir	57 Sinop	74 Bartın
07 Antalya	24 Erzincan	41 Kocaeli	58 Sivas	75 Ardahan
08 Artvin	25 Erzurum	42 Konya	59 Tekirdağ	76 Iğdır
09 Aydın	26 Eskişehir	43 Kütahya	60 Tokat	77 Yalova
10 Balıkesir	27 Gaziantep	44 Malatya	61 Trabzon	78 Karabük
11 Bilecik	28 Giresun	45 Manisa	62 Tunceli	79 Kilis
12 Bingöl	29 Gümüşhane	46 Kahramanmaraş	63 Şanlıurfa	80 Osmaniye
13 Bitlis	30 Hakkari	47 Mardin	64 Uşak	81 Düzce
14 Bolu	31 Hatay	48 Muğla	65 Van	
15 Burdur	32 Isparta	49 Muş	66 Yozgat	
16 Bursa	33 İçel	50 Nevşehir	67 Zonguldak	
17 Çanakkale	34 İstanbul	51 Niğde	68 Aksaray	

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